REPORT

Teleworking Life Cycle Analysis

Prepared for

Telstra

242 Exhibition Street Melbourne VIC 3000.17 September 2008.43283300.



TELEWORKING LIFE CYCLE ANALYSIS

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Date:

17 September 2008.

Reference: Status:

43283300 Final



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Executive Summary

This report contains the results of a comparative Life Cycle Assessment (LCA) undertaken to compare the environmental impacts associated with teleworking (working partially at home instead of in the organisation's office) to those associated to non-teleworking (working full time in the organisation's office). The project has been completed to showcase how LCA can be used to underpin claims made on the environmental benefits of Telstra's product and service innovations. Telstra, by deploying LCA, has ensured a robust analysis has been completed enabling the environmental impacts of its products and services to be measured, in this case of teleworking and non-teleworking.

This study has been based on a realistic teleworking scenario as it could potentially apply to Telstra's employees. Telstra provided the relevant assumptions for potential practical arrangement relative to teleworking as they may apply to their office personnel.

The key activities and work conditions associated with the two scenarios (non-teleworking and teleworking) that were incorporated into the model include:

- commuting to place of work;
- equipment required to perform tasks (e.g. computer); and
- resources consumed in the office environments both in the company and the home office (e.g. heating and cooling).

The life cycle impacts existing throughout the life of a car and differential office equipment (i.e. office equipment required in one scenario and not another) were built into the model. Resource consumption associated with travel, the office environments and "rebound effects" were also included in the model. "Rebound effects" refer to situations where people engage in side activities (i.e. non work related) that they would not have undertaken if they were not teleworking.

The data collected for the model was obtained from Telstra, scholarly journals and local information sources such as the Australian Bureau of Statistics. The data was entered into SimaPro V7 software and combined with information from Australian databases (wherever feasible) in SimaPro to construct the LCA model. It is essential to note that the comparative LCA focuses on the differential use of resources between the two scenarios. As a consequence, it is not possible to read the results of this LCA on total values for either scenario. The results are relative. Anything common to both scenarios is considered as outside of the scope of the model.

The environmental impact categories considered were: global warming, human toxicity, abiotic depletion and photochemical oxidation (as defined in Table 2-1). The impact categories for the comparative LCA indicate that the environmental impacts associated with non-teleworking are greater than those associated with teleworking, except for the case of human toxicity, for which the reverse is true (unless, greater than approximately 25% of the original space occupied by teleworkers, is immediately consolidated). Key results are shown in Table ES-1. The data shows a comparison of the impacts associated with 3,000 non-teleworking employees compared to 3,000 teleworking employees.

A sensitivity analysis was undertaken on the global warming impact category to test assumptions the model was based on. The results of the sensitivity analysis indicated that the conclusion remains true in most cases and that the distance travelled to work by commuters is the most significant parameter. Teleworking is more beneficial than non-teleworking if an employee is commuting from a total distance greater than 30 km. The further an employee has to commute, the greater the environmental benefit of teleworking. Other key parameters influencing the results include:

• Space gain: The quicker the space created within the company's offices from hot-desking, due to teleworking, is consolidated, the greater the environmental benefits of teleworking. As an example if 50% of the original space occupied by teleworkers can be consolidated immediately the global warming benefit increases from 242 kg CO₂ eq for the base case to 1,624 kg CO₂ eq.



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- Energy efficiency of the company's buildings: the more energy efficient the company's buildings are, the less the environmental benefit of teleworking. However, a 75% reduction in the present average energy consumption at the company's office still results in the impacts of non-teleworking being greater than the impacts associated with teleworking.
- Home energy efficiency: The more energy efficient the home office set up, the greater the benefits of teleworking. When the energy consumed in the home office increases by 40% to greater than 1,212 kWh of energy per year, the impacts associated with non-teleworking become greater than those associated with teleworking.
- Clean energy: The more the home office is relying on "cleaner" energy sources, the greater the environmental benefits of teleworking (for example gas for heating rather than electricity from coal)

Table ES-1 Overall comparative impacts of 3,000 non-teleworking and 3,000 teleworking (1,500 two days a week and 1,500 four days a week) employees

Impact Category	Unit	Non- teleworker	Teleworking	Difference between non- teleworking and teleworking	Comparative Data
Abiotic depletion	kg Sb eq	98,644	93,959	4,684	Equivalent to the impact of the consumption of petrol from driving 2.3 million kilometres
Global warming (GWP100)	kg CO₂ eq.	15,784,804	15,056,843	727,961 *	Equivalent to the impact of the consumption of petrol from driving 2.2 million kilometres
Human toxicity	kg 1,4-DB eq	802,526	940,149	-137,624 **	Equivalent to the total LCA impact of producing approximately 300,000 L of beer
Photochemical oxidation	kg C ₂ H ₂	16,766	9,886	6,881	Equivalent to the impact of the consumption of petrol from driving 8.2 million kilometres

^{*} If the original office space occupied by teleworkers can be consolidated immediately by 50%, then the global warming impact difference between non-teleowrking and teleworking becomes 1,634 kg CO₂eq...



^{**} If the original office space occupied by teleworkers can be immediately consolidated by greater than approximately 25%, then the human toxicity impact difference between non-teleworking and teleworking becomes positive

Introduction

URS was engaged by Telstra Corporation to carry out a Life Cycle Assessment of the environmental impacts of teleworking (working partially at home instead of in the organisation's office) compared to non-teleworking (working full time in the organisation's office). This study has been based on a realistic teleworking scenario as it could potentially apply to Telstra's employees. Telstra provided the relevant assumptions for potential practical arrangement relative to teleworking as they may apply to their office personnel.

This study supports and provides further detail to the report commissioned by Telstra *Towards a High-Bandwidth*, *Low-Carbon Future: Telecommunications-based Opportunities to Reduce Greenhouse gas Emissions*¹ prepared by consultants Climate Risk and released in October 2007 which provides a vision for how broadband enabled technologies could contribute to a reduction in Australia's greenhouse gas emissions of almost 5% per year by 2015.

It is recognised that every teleworking scenario will vary in terms of travel mode and distance, company and home office configuration and resource and material use. This study considers a "base case" or average scenario based on typical data from a number of reliable sources and is considered typical of any large organisation. Parameters such as travel distance, energy efficiency of the company or home office and consolidation of office space are then varied in a sensitivity analysis to examine the significance of different inputs.

1.1 Context

Research data suggests that flexible working practices are a growing phenomenon in many countries around the world, including Australia, resulting in more employees working from home². For example, the ABS 2005 Australian Social Trends survey estimated that approximately 2.2 million workers did at least some work from their own home during November 2005, up 4% from June 2000³.

While reducing the need to travel to the office brings some obvious environmental benefits, other aspects of teleworking may not necessarily be beneficial. A desktop review identified that a number of studies have been undertaken and reports released which discuss the environmental impacts of teleworking compared to non-teleworking. The outcomes from the review are provided in Appendix D. The most comprehensive studies were Kitou and Horvard (2003) and Williams (2003). Kitou and Horvard (2003) focused on energy related emissions and found that the benefits of teleworking appear to be dependant on "commuting patterns, induced energy usage and characteristics of office and home space and equipment use". Williams (2003) focused on energy usage in Japan and concluded that the results indicate that telecommuting should be considered as a serious candidate for reduction of energy-related environmental impacts in Japan. However, the author noted that there is a level of uncertainty and adoption is hampered by the limitation on modes of communication. Transport savings is the dominant factor and energy use in buildings (commercial and residential) is significant. Williams recognises that consumption in office buildings must be reduced sufficiently to at least balance out increases in residential consumption.

The review confirmed that little work has been done to compare the full life cycle impacts associated with both teleworking and non-teleworking. This is especially relevant in the Australian context where commuting by car is common and energy production from brown coal is particularly environmentally harmful. Telstra felt that a lifecycle analysis of teleworking (relevant to the characteristics of a large organisation) was required to inform its own approach to a teleworking work policy and before promoting any environmental benefits from this telecommunications enabled solution.



¹ A copy of the report, *Towards a High-Bandwidth, Low-Carbon Future: Telecommunications-based Opportunities to Reduce Greenhouse gas Emissions*, can be downloaded from Telstra's website: www.telstra.com.au/abouttelstra/csr/climate_change.cfm

²Report of the Australian Telework Advisory Committee to the Australian Government, 2006

³ Australian Bureau of Statistics, 2006

⁴ Kitou and Horvard (2003) , p 3467

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The outcomes from this project were similar to those observed by Kitou and Horvard (2003) and Williams (2003). This project concluded that travel and energy consumption in the home office strongly influenced the environmental benefits of teleworking. A unique conclusion from this study was that the life cycle impacts of different equipment associated with non-teleworking and teleworking scenarios such as a telephone, car or computer mouse were insignificant compared to the impacts associated with energy usage in the company or home office, or resource usage associated with travel.

1.2 Objectives

The project objectives are:

- To identify the life cycle environmental impacts associated with teleworking and to compare them with those associated with non-teleworking activities;
- To identify the key contributors to the life cycle impacts of these two scenarios; and
- To provide guidance for businesses and government organisations to assess the potential outcomes of a teleworking policy on their environmental impacts.

1.3 Key definitions

Life Cycle Assessment (LCA) is a quantitative assessment tool. It applies a systems approach to identify, quantify and compare the environmental impacts of a product, service or system. For each key stage, the impact is measured in terms of resource used and resulting environmental impacts. The key stages for a product or service can include raw materials extraction through to processing, transport, use, reuse, recycling or disposal, and the process assessment is often referred to as "cradle to grave". In this study a LCA systems analysis was undertaken to assess the impacts associated with teleworking, by comparison with non-teleworking. Consideration was given to resource consumption and existing LCAs of a number of products and equipments which were integrated into the process (refer to Section 1.4 for more detail).

A **comparative LCA** has been undertaken, which means that it incorporates only the processes and stages where a difference between the two scenarios, teleworking and non-teleworking, has been identified. Practically, this means that this study does not cover the full LCA of teleworking nor of non-teleworking.

Teleworking has been defined as a method of performing work away from company's offices. In this study the work is performed in the teleworker's home in a space referred to as the *home office*. This space may be a separate room or a space set aside within a multifunctional room.

Non-teleworking is the performance of work within Telstra's office.

Enabling environment: the office environment, which is a space appropriately lit and heated to enable somebody to undertake their work. The office may be in a company building or at home.

1.4 Goal and scope definition

In order to set appropriate boundaries for the project, consideration was given to the key activities and enabling environments associated with both scenarios: teleworking and non-teleworking. The key activities and enabling environment were confirmed through the desktop review (see Appendix D) to include commuting to the place of work, equipment required to perform tasks (e.g. computer) and resources consumed in the office environment (e.g. heating and cooling). It is essential to note that the comparative LCA focuses on the differential use of resources between the two scenarios. Therefore, anything common to both scenarios is considered as outside of the scope of the model.

With this in mind, the processes inside the scope boundaries have been grouped under three key headings:

1) Transportation;



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- 2) Office Equipment (in the home office and company office); and
- 3) Office Environment (in the home office and company office).

With regards to office equipment, only differential equipment was incorporated into the model: that is, equipment required in one scenario but not the other. "Rebound effects" were also included in the model. "Rebound effects" refer to situations where people engage in side activities (i.e. non work related, such as having the TV on) that they would not have undertaken if they were not teleworking.

Population concerned

Telstra employs approximately 40,000 people who are located across Australia. The study considers the impact of 3,000 (7.5%) employees teleworking. Of those 3,000, it was determined that 50% (1,500) could telework 2 days a week and 50% (1,500) could telework 4 days a week, with the remaining days of the week spent in the company office, i.e. non-teleworking.

Consequently the model compares the impacts associated with a group of 3,000 non-teleworkers to a group of 3,000 teleworkers (1,500 2-day a week teleworkers and 1,500 4-day a week teleworkers).



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The recommendations of the International Standards for Environmental Management - Life Cycle Assessment were used as guidance for this study (AS/NZS ISO 14040:1998, AS/NZS ISO 14041:1999, AS/NZS ISO 14042:2001, AS/NZS ISO 14043:2001 and AS/NZS ISO 14048:2003). The recommended steps for scope and goal definition, lifecycle mapping, lifecycle inventory and lifecycle impact assessment were followed.

2.1 Life cycle assessment tool

To undertake the analysis we used the SimaPro V7 software. SimaPro stands for System for Integrated environMental Assessment of PROducts. It has been developed by PRé Consultants, a company based in the Netherlands and follows the ISO 14040 series recommendations that consist of environmental management; principles and framework of life cycle assessment. It is a database embedded LCA software tool that has been written in Microsoft Access.

SimaPro contains background data associated with nested and non-nested material, transport, waste treatment, manufacturing, and energy processes from various countries for a wide range of technologies and scales. The quantitative data are entered in matrix (tabular) format. The program performs the matrix multiplication of tables (emission rates multiplied by life cycle impact category potency factor to provide life cycle impact values). The program allows the user to logically link various processes from "cradle to grave". The processes can be assembled into a life cycle tree and can produce graphical outputs. The project and its outputs can be exported to and/or imported from Microsoft Excel and Access. In addition, the software has a special provision to generate real time LCA reports. The main advantages of the software are life cycle tracing and tracking of all material and energy inputs and outputs and the greater speed and accuracy with which thousands of nested and linear process inputs can be handled and analysed.

2.2 Life cycle mapping

To understand the life cycle of teleworking, a literature review was first undertaken, to identify already completed teleworking life cycle assessments and teleworking environmental impact studies. The outcomes from the review processes led to structuring the life cycle assessment under three key headings: transportation, office equipment and office environment, as discussed in Section 1.4.

Meetings and conversations with Telstra allowed the development of realistic assumptions for teleworking as it could apply to an organisation. These assumptions were documented and formally validated by Telstra and are described in Section 3.

Based on these assumptions, data sheets were drafted. The data sheets included calculations corresponding to the various processes contributing to the key headings (transportation, office equipment and office environment) for each scenario (teleworking and non-teleworking). Data gaps were then identified and a data collection process agreed upon.

2.3 Data collection

The data for processes were collected and collated from Telstra (e.g. energy consumption in the office), scholarly journals (e.g. life cycle assessments of mobile phones and other equipment) and local information sources such as the Australian Bureau of Statistics (e.g. commuting distances to work). When necessary, organisations such as Sustainability Victoria and the Australian Bureau of Statistics were contacted to ensure data was being interpreted correctly.

Whenever possible, data available in the SimaPro 7 software was used with preference given to products and processes from the Australian databases.

These inputs enabled the completion of the stage in the lifecycle assessment known as lifecycle inventory (described in Section 3).



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2.4 Modelling

A model was then built in SimaPro to bring all the collected data and defined calculations together in a life cycle system. This was done using the SimaPro functionalities which allow the construction of successive "product stages" corresponding to aggregation steps (or modules) defined by the project team. The model was built along the same three key headings defined above (transportation, office equipment and office environment), distinguishing between the life cycle impacts associated with a car and office equipment and resource consumption associated with travel and the office environment (e.g. heating and cooling). "Rebound effects" were incorporated into the model, these refer to situations where people engage in side activities (i.e. non work related) that they would not have undertaken if they were not teleworking. One typical rebound effect is travel associated with activities such as dropping and picking up children from school which may have otherwise been incorporated as part of an employees commuting trip.

To allow comparison of the two teleworking and non-teleworking scenarios, a "product stage" comparing the impact of one teleworker equivalent and one non-teleworker equivalent was built. A teleworker equivalent corresponds to the combination of 50% of the impact of a 2 days teleworker and 50% of the impact of a 4 days teleworker, as the teleworking workforce was split evenly between these two groups. It is important however to note that the overall calculation is based on the comparison of a 3,000 employees population, as some assumptions need to be applied to the whole population (for e.g. office space savings). The scaling down to one employee equivalent is therefore only an artificial construction developed to facilitate the analysis.

The SimaPro model could then be run, using the graphical presentation functionalities to produce the analyses presented in this report.

2.5 Method

SimaPro offers the possibility to run the model using a range of standard impact assessment methods. Each method uses different approaches (methodologies and weighting systems) to determine the impact associated with an activity. The method chosen for the present assessment is the CML2001 V2.0 -Australian toxicity factors. The CML 2001 life cycle impact assessment method has been developed on the basis of AS/ISO 14043:2001 specifications. Under this method, SimaPro produces impact assessment results for 10 indicators: abiotic depletion, global warming (GWP100), ozone layer depletion (ODP), human toxicity, fresh water aguatic ecotoxicity, marine aguatic ecotoxicity, terrestrial ecotoxicity, photochemical oxidation, acidification and eutrophication. It contains the most recent and internationally reviewed and accepted impact assessment models for impact categories such as global warming, atmospheric acidification, stratospheric ozone depletion, human toxicity, terrestrial and aquatic (fresh water and marine) eco-toxicity, resource energy, winter and summer smog, and abiotic resource depletion. The potency factors for the impact categories have been internationally adopted and are consistent with respective international protocols, e.g. global warming potency factors are consistent with Intergovernmental Panel on Climate Change (IPCC) and United Nations Framework Convention on Climate Change (UNFCCC). The CML 2001 toxicity factors have been derived from the European models with necessary adaptations to Australian spatial and temporal context and human and ecosystem health standards (Huijbregts and Lundie (2002)).

As mentioned in 1.4, the key environmental issues associated with the model are:

- Energy usage in the company and home office environments;
- Consumption of fuel associated with travel; and
- Consumption of materials associated with office equipment and car.

Impact categories that reflect these issues and are most relevant to the Australian environment include: abiotic depletion, global warming, human toxicity and photochemical oxidation. Therefore the analysis focused on these four impact categories. These impact categories are defined in Table 2-1. The unit used is a standardisation process used in LCA.



Methodology

Table 2-1 Definition of Impact Categories

Impact Category	Definition	Unit
Abiotic Depletion	The consumption of energy sources and a number of scarce metals. This impact category is concerned with protection of human welfare, human health and ecosystem health.	kilogram of antimony equivalents/ kilogram of extraction
Global warming	The potential contribution of a substance to the greenhouse effect. It can result in adverse affects upon ecosystem health, human health and material welfare.	kilogram carbon dioxide/ kilogram emission
Human Toxicity	The effects of toxic substances on the human environment. In this model the toxic substances include compounds such as arsenic, chromium IV and polycyclic aromatic hydrocarbons (PAH).	1,4-dichlorobenzene equivalents/ kilogram emission
Photochemical oxidation	The formation of reactive substances (mainly ozone) which are injurious to human health and ecosystems and which also may damage crops.	kilogram ethylene equivalents/ kilogram emission

It should be noted that water resource depletion is not a separate indicator available in the CML 2001 method. Although water scarcity is a major issue in Australia, none of the impacts associated with the processes included in the model involve direct water usage. The exception is the home office rebound effect associated with use of the washing machine and dishwasher. As these activities are comparatively minor in scale, we have not looked to incorporate a water usage impact category in the model.

The major impact highlighted under each impact category (as discussed in Section 4.2) was that associated with energy and fuel consumption. Therefore, global warming became the main focus of the analysis as it is the most relevant indicator when addressing environmental issues associated with energy and fuel consumption.

2.6 Analysis

Once the model was established in SimaPro the results were obtained and analysed. Key results are presented in Section 4 of this report with lifecycle evaluation information presented in Section 6. The latter describes the controls that were established to ensure that the results made sense and to help identify and rectify any errors. A key step of the study was to undertake sensitivity analyses to assess the impact of potential variations of key input parameters on the results (see Section 5). Sensitivity analysis highlights the significance of assumptions and input data and this technique was used to help establish recommendations for the management of impacts, which are summarised in Section 7.

2.7 Peer review

The process and the present report were subject to an internal (i.e. performed by URS) and external peer review process. The external peer review was undertaken by the Centre for Water and Waste Technology (CWWT), School of Civil and Environmental Engineering, University of New South Wales. The peer review team at CWWT were provided with a copy of the full report and the complete underlying LCA model constructed using the SimaPro life cycle assessment software. The peer review process gave consideration to:

- the appropriateness of the scope to the goal of the study;
- the consistency of the system boundaries with the scope;
- the contents of the Life Cycle Inventory;
- the consistency of the Life Cycle Impact model with the report;



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- the use of Life Cycle Impact Assessment characterisation factors; and
- the consistency of the interpretation with the characterised results.

The Peer Review report is presented in Appendix E. Most Peer Review comments were adopted and this report is an amended version taking into account the points made in the review. Appendix E also presents a summary table of how the comments have been taken into account or of the response to the comments when they have not been pursued.



Life Cycle Inventory

The life cycle inventory analysis of teleworking and non-teleworking involved collecting and collating resource consumption data for identified components and processes. This required assumptions to be made as presented in this section. The processes were then aggregated into appropriate product stages and consolidated to produce life cycle results.

The inventory data is presented under the three key areas of transportation, office equipment and office environment, as defined in Section 1.4. The "rebound effects" have consolidated in a separate section so that they can be easily identified.

3.1 Overall assumptions

Based on discussions held with Telstra's Human Resources Department it was assumed that a typical office employee (teleworker or non-teleworker) works 8 hours a day, 5 days a week, 45 weeks a year. Each employee takes 4 weeks of annual leave, 2 weeks of public holiday leave and 5 days sick/carers leave.

It was also assumed that a teleworker and a non-teleworker consume the same amount of water and office resources such as paper and basic stationary items, and produce the same amount of waste (including human waste) and wastewater. Therefore, with the exception of the solid waste associated with the disposal of a car and office equipment these aspects have not been considered in the model.

As Telstra is a national Australian employer, the study region is Australia.

3.2 Transportation

Means of transport

It is assumed that public transport (trains, buses and trams) will run regardless of an employee's telecommuting activities and therefore associated LCA impacts have been excluded from this model. The model only includes data associated with those commuting to work by car, i.e. 75% of the commuters (see Table 3-1). This is equally valid for non-teleworkers and teleworkers (for the days when the latter actually travel to work).

It has been assumed that the car used by the employees is a Holden Commodore (the most common Australian car), and the employee is the only person in the car. The life cycle impacts of the car have been incorporated into the model. The data associated with the LCA of a Golf A4 RER was already available in SimaPro. The data was extrapolated based on weight, so that it reflected the weight of a Holden Commodore. The percentage of overall car usage allocated to commuting purposes (as highlighted in Table 3-1) has been calculated to find out how much of the life cycle impacts of a car should be assigned to the different scenarios.

Another assumption is that the number of household cars remains constant, unless an employee teleworks 4 days a week in which case 20% of teleworkers will choose not to have a car. The life cycle impacts of a car allocated to teleworking 4 days a week have been adjusted to reflect this.

Key data associated with transportation is summarised in Table 3-1. The statistics are based on Australian averages as Telstra's offices are based throughout Australia. It is acknowledged that the data would be different if the study focused only on capital cities.



Life Cycle Inventory

Table 3-1 Key data associated with transportation

Parameter	Australian Averages	Source
Commuting distances to work	34 km per day (return)	ABS, Survey of Motorvehicle Use. 12 Months Ended 31 October 2005, 9208.0 pg 16
Percentage of workers commuting by car	75%	Modification of: ABS, 2001 Census of Population and Housing Australia (82% - as driver or passenger); Commissioner for Environmental Sustainability, Victoria, Commuter Transport: Mode efficiency, mode choice and environmental impact in Victoria, March 2006 (Melbourne: 78%, Sydney: 67%)
Percentage of overall car usage allocated to commuting purposes	Non teleworker: 53% Teleworker (2 days); 43% Teleworker (4 days): 29%	Teleworker data was extrapolated from: ABS, Survey of Motorvehicle Use. 12 Months Ended 31 October 2005, 9208.0 pg16.

3.3 Office equipment (Company office and home office)

A number of key assumptions associated with office equipment were made to help and simplify the model:

Infrastructure/equipment

- The life cycle impacts of a desktop computer are considered the same as a laptop. While this may not be accurate, this has been considered as a conservative assumption.
- The nature of the equipment (type, model) is identical in the home and work office and no equipment maintenance or repair is built into the model.
- The impact of teleworking on the number of multifunctional (copier/printer/scanner/fax) devices in the office due to teleworking is considered negligible.
- Infrastructure impacts on communication networks (phone, ADSL) have been deemed negligible and left out of the model.

Usage

- Computer usage, referring to energy consumed, is assumed to be equal for a teleworker and nonteleworker.
- Voicemail is used regardless of whether the employee is at the company office or in his home office and is assumed not to have any net environmental impact.

3.3.1 Non-teleworking employees

Infrastructure/equipment

The type of office equipment required for non-teleworking is based on that which is presently used by Telstra employees and is typical of many Australian companies:

- Non-teleworking employees have a desktop computer (with a built in power adapter), desk, chair and telephone in the company office.
- 75% have a mobile phone.



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Usage

Related energy usage is the same regardless of the scenario and does not need to be included in the model.

3.3.2 Teleworking employees

Infrastructure/equipment

All teleworking employees have a laptop computer which they use both in the company office and at home (therefore there is no computer duplication) and a mobile phone.

Teleworking 2 days a week

Employees teleworking 2 days a week keep a desk, chair, docking port, AC power adapter, computer keyboard, computer mouse and telephone in the company office.

Each employee teleworking 2 days a week has a second computer keyboard, AC power adapter and computer mouse in their home office, which are used for work purposes only. They also have a second chair, desk and internet connection in the home office which is used 70% of the time for work related purposes.

Teleworking 4 days a week

Employees teleworking 4 days a week use a hot-desk workstation (1 workstation is shared between 4 employees) in the company office. Each hot-desk workstation has a desk, chair, computer key board, computer mouse, internet connection and phone.

Each employee teleworking 4 days a week has a computer keyboard, computer mouse, chair, desk, AC power adapter, docking port and internet connection in their home office. Twenty-five percent of employees teleworking 4 days a week are provided with an independent phone line and telephone (landline) for their home office. All these pieces of equipment are used for work purposes only.

A summary of the infrastructure/equipment for each scenario is provided in Table 3-2.

Table 3-2 Equipment associated with a non-teleworker and a person teleworking 2days a week and 4-days a week

No. of teleworking days	Equipment (amount of equipment)								
	Phone	Docking Port	Mobile Phone	Keyboard	Mouse	Chair	Desk	AC power adapter	Internet connection (modem)
0	1	0	0.75 ¹	0	0	1	1	1 (built in)	1
2	1	1	1	2	2	1.7 ²	1.7 ²	2	1.7 ²
4	0.5 ³	1	1	1.25 ⁴	1.25 ⁴	1.25 ⁴	1.25 ⁴	1	1.25 ⁴

 ^{75%} of non-teleworkers have a mobile phone.

^{4.} A 4 day a week teleworker has a desk, chair, computer key board, computer mouse and internet connection in his home office and shares each of these items with 3 other employees in the company office, hence 1.25 of these items are allocated to them.



^{2.} A 2 day a week teleworker has a desk, chair and internet connection in the company office and in their home office. In the home office these items are used 70% of the time for work purposes, which is why the 2 day a week teleworker has 1.7 of these items allocated to them.

^{3. 25%} of 4 day a week teleworkers have a phone in their home office and each shares a phone with 3 colleagues in the company office, hence 0.5 of a phone (0.25 + 0.25) is allocated to them.

Life Cycle Inventory

Based on the scenarios described above, Table 3-3 indicates the proportion of the life cycle impacts of the equipment that was built into the model for each scenario. The data represents **differential** figures, i.e. equipment required for one scenario and not the others. For example, regarding the phone, as each scenario requires at least 0.5 of a telephone, a differential is calculated for non-teleworkers and 2-day teleworkers compared to 4-day teleworkers. This differential equals 0.5=(1-0.5) for non-teleworkers, where 1 is the number of phones required by non-teleworkers and 0.5 the number of phones required by 4-day teleworkers. Based on the same principle, the differential also equals 0.5=(1-0.5) for 2 day a week teleworker. The figures in Table 3-3 show the proportion of the life cycle impacts of the equipment built into the model. Therefore 50% of the life cycle impacts of a phone will be allocated to a non-teleworker and 2-day teleworker respectively and zero percentage allocated to a 4-day teleworker.

Table 3-3 Proportions of the life cycle impacts for differential equipment

No. of teleworking days	Equipment								
	Phone	Docking Port	Mobile Phone	Keyboard	Mouse	Chair	Desk	AC power adapter	Internet connection (modem)
0	50%	-	-	-	-	-	-	-	-
2	50%	100%	25%	100%	100%	70%	70%	100%	70%
4	-	100%	25%	25%	25%	25%	25%	-	25%

A greater percentage of the life cycle impacts associated with the equipment are allocated to the 2-day teleworker because they incur a greater degree of equipment duplication as they maintain their space and equipment in the company's office and have a home office.

A comprehensive list of the input data for each piece of material is provided in Appendix A.

Usage

Even though there is duplication in some pieces of equipment, these are not used simultaneously therefore there is no duplication regarding usage.

3.4 Office environment

Infrastructure/equipment

To help simplify the model, it was assumed that the aggregated infrastructure for lighting, heating and cooling and the emissions of fluorocarbons (HFCs and HCFCs) due to air conditioning and refrigeration in residential buildings are equal to the infrastructure and emissions associated with commercial buildings. This means that the life cycle impacts of this infrastructure and the impacts of these emissions does not need to be considered in this differential life cycle assessment. Please note that this relates only to the exclusion of infrastructure materials and fluorocarbons in the LCA, <u>not</u> to the difference in energy usage⁵.

Usage

The key aspect relevant to the office environment is energy consumption associated with electricity usage and heating and cooling (described in the paragraphs below).

⁵ Also note that while resulting impact for energy usage is a differential, energy usage inputs have not been built into the model as differentials.



Life Cycle Inventory

Non-teleworking employees

Usage

Energy consumption associated with the company's office activities includes lighting, heating and cooling and computer usage. The average Telstra Office consumes approximately 246 kWh of electricity and 0.075 GJ of gas per m² per year⁶. Each employee occupies 12.5 m² of office space (i.e. average rented space per office employee).

3.4.2 **Teleworking employees**

Infrastructure/equipment

A number of key assumptions associated with the home office environment were made to help limit the boundaries of the model:

- The decision to upgrade, replace or purchase home heating and cooling devices (or other white goods and electrical equipment or indeed any other home equipment) is not affected by teleworking but their usage increases with teleworker days.
- There is no change in the size of the employee's home or pre-existing home office due to teleworking.
- A standard large wall air conditioning unit is used for cooling the home office and a standard underfloor ducted heating system for heating the home office.
- Teleworking impacts on the ADSL or phone network are considered negligible.
- The home office uses one 75 Watt light plus a 60 Watt lamp both with incandescent globes⁷.

Usage

Table 3-4 highlights the key variables for lighting in the home office.

Table 3-4 Key variables for lighting in the home office

Teleworker days	Usage (hrs/week)	Amount (W)	Total energy usage (kWh/week)
0	-	-	
2	16	135	0.56
4	32	135	4.32

Reference: Kitou and Horvath, 2003

Heating and cooling in the home office is required for a quarter of the employee's annual work time (i.e. 11 weeks of heating and 11 weeks of cooling). Only 75% [seems high, is this average household penetration for air-conditioning? Jof employees have air-conditioning at home and 100% have heating⁸.

⁸ The number of homes with air conditioners is extrapolated from data presented in Morgan, 2002. In 2002, 57% of people had air conditioners in Victoria; it was assumed that this percentage would be approximately 75% in 2007 for the whole of Australia. The



⁶ This is based on consumption levels at Telstra's office at 242 Exhibition Street, Melbourne which was compared to a number of other Telstra buildings and was considered an appropriate indicator of average consumption.

This assumption was estimated by the report's authors.

Life Cycle Inventory

During the heating period the heating will only be on 70% of the time. During the cooling period the air-conditioner will be on for only 60% of the time. This has been considered as a reasonably conservative average for the whole of Australia (with specific focus on Sydney and Melbourne, where the largest concentration of potential teleworkers is likely to be found). Refer to Table 3-5 for heating and cooling data.

Table 3-5 Key variables for heating and cooling in the home office

	Hom	e Office He	eating	Home Office Cooling		
Teleworker days	Usage (hrs/week)	Amount (W)	Total energy usage (kWh/week)	Usage (hrs/week)	Amount (W)	Total energy usage (kWh/week)
0	-	-	-	-	-	-
2	14	1,400	19.6	14	3,000	42
4	28	1,400	39.2	28	3,000	84

Reference: Morgan, 2002

 As computer usage and other electronic devices are considered in the energy consumption figure for Telstra's average office it is not accounted for in the home office to avoid duplication (i.e. there is no differential).

Teleworking 2 days a week

Energy usage in the company's office is not affected by employees' teleworking 2 days a week, as their office space (desk, chair etc) is kept as it is and the space will be heated and cooled regardless of whether the employee is present. The key assumption here is that the effort of heating and cooling a building is not dependant on the number of people in the building. Also, computer electricity usage is not different whether the computer is used at home or in the office. Therefore, Telstra's average office energy usage was included in the 2 day teleworker scenario.

Teleworking 4 days a week

Those teleworking 4 days a week are hot-desking when in the company office. Therefore, these employees will be giving up the space they occupy in the company office when not teleworking. It has been assumed that this would result in an immediate consolidation of 10% of the space originally occupied by the 1,500 4 day a week teleworkers. This would lead to a 10% reduction in energy usage within the company office. Therefore only 90% of the company's average office energy usage was built into the model for the 4 day a week teleworker and there was assumed to be no impact on building infrastructure.

3.5 Rebound effects

"Rebound effects" refer to situations where people engage in side activities (i.e. non work related) that they would not have undertaken if they were not teleworking. It is necessary to consider rebound effects as there are synergies between commuting and other activities such as dropping off and picking up children from school. The identified rebound effects associated with teleworking relate to transportation and the office environment.

number of heaters was 100% in Victoria (Morgan 2002) and is assumed to have remained constant and has been extrapolated to the whole of Australia, as a conservative estimate.



Life Cycle Inventory

Transportation

Although teleworkers do not need to travel to work on teleworking days, it is assumed they will still use their car for purposes such as shopping, dropping children at school or childcare - activities that would normally be built into their travel to work. This is considered a travel rebound effect for teleworkers and is assumed to be included in the trip to work for non-teleworkers. In the model it is assumed that teleworkers still travel 21% of the distance travelled on non-teleworking days⁹.

3.5.2 Office environment

Teleworking has a rebound effect on home lighting in the family room and kitchen, as it is assumed employees use this space more because they are teleworking. Table 3-6 highlights the key variables for the rebound lighting effect. It is assumed that there are two 75 Watt lights with incandescent globes in the lounge room plus two 75 Watt lights with incandescent globes in the kitchen area 10.

Table 3-6 Key variables regarding the rebound lighting effect in the home office

			Total
Teleworker	Usage	Amount	energy
days	(hrs/week)	(W)	usage
			(kWh/week)
0	-	-	-
2	2	300	0.6
4	6	300	1.8

Reference: Kitou and Hovarth 2003

The usage of general home appliances such the TV, stereo, dishwasher and washing machine increases when teleworking based on work undertaken by Kitou and Hovath (2003). This is due to having more time at home and is referred to as the appliance "rebound effect". Table 3-7 and Table 3-8 highlight the data used in the model, associated with this impact. 11 The scale of the rebound effects highlighted in Table 3-8 is interpolated from Kitou and Hovarth (2003) for the TV, stereo and washing machine. Dishwasher usage is less than that used by Kitou and Hovarth (2003) because the authors considered that 1 and 2 loads per week was more realistic than 2 and 3.5 suggested by Kitou and Hovarth. It should be noted that the figures used by Kitou and Hovarth for the appliance rebound effect were estimated.

Kitou and Hovarth also mention the use of cooking appliances at home. It must also be noted that, in Australia, cooking appliances are very often used at work when people bring their lunch (micro-wave, toasters). Based on this, the use of cooking appliances at home has not been considered as a rebound effect.

equipment was not included in the model as it was assumed their impact would not affect the overall LCA results.



⁹ The distance traveled (21%) is taken from the findings identified in the Road Traffic Authority NSW's Teleworking Pilot Project (1993/94)

¹⁰ These assumptions have been estimated by the report's authors with consideration given to those applied by Kitou and Horvath (2003). ¹¹ Kitou and Hovarth (2003) include use of a clothes dryer, gas oven and stove in the appliance rebound effect. Usage of this

Life Cycle Inventory

Table 3-7 Energy usage associated with each appliance

Appliance	Energy Usage (W)
TV*	70
Stereo*	20
Dishwasher**	1,000
Washing Machine**	500

Source: * Energy Australia / ** Kitou and Hovarth 2003

Table 3-8 Key variables for home appliance rebound effect for teleworkers

	TV	Stereo	Dishwasher	Washing machine	Total Energy Usage (per week)
Teleworker days	Usage (hrs/week)	Usage (hrs/week)	Usage (loads/week)	Usage (loads/week)	kWh
0	-	-	-	-	-
2	4	6	1	1	1.9
4	8	12	2	2	3.8

Source: Kitou and Horvath (2003)

3.6 Comparative life cycle inventory

A simplified comparative life cycle inventory for the model is provided in Table 3-9. The SimaPro output data for the model is provided in Appendix F.

Table 3-9 Comparative life cycle inventory for non-teleworking and teleworking

Parameters	Non-teleworker	2-day teleworker	4-day teleworker
Company Office energy	Gas: 0.94 GJ/year Electricity: 3,075 kWh/year	Gas: 0.94 GJ/year Electricity: 3,075 kWh/year	Gas: 0.84 GJ/year Electricity: 2,768 kWh/year
Home Office energy use	0 kWh/year	568.7 kWh/year	1,164 kWh/year
Transport	5,770 kilometres travelled per year	3,950 kilometres travelled per year	2,130 kilometres travelled per year
Rebound Effect	Transport: O kilometres travelled per year Home Office: 0 kWh/year	Transport: 474 kilometres travelled per year Home Office: 112.5 kWh/year	Transport: 256 kilometres travelled per year Home Office: 196 kWh/year
Office Equipment*	Car Telephone (fixed line)	Car Telephone (fixed line) Computer mouse Computer key board Computer modem Mobile Phone Laptop Docking Station Office desk Office chair	Car Computer mouse Computer key board Computer modem Mobile Phone Laptop Docking Station Office desk Office chair

^{*} Materials used in the manufacture of these products are provided in Appendix A. Appropriate data sources and assumptions are provided.



Life Cycle Inventory

When the LCA model was constructed the "rebound effect" for transport and the home office were included in their respective areas i.e. transport and home office energy use respectively. Consequently the impacts associated with the rebound effects were not independently analysed. However, they represent only a small percentage of the overall transport and energy usage.

It should be noted that for inputs associated with air emissions, water (including usage and emissions to water) and waste disposal (beyond waste disposal incorporated for office equipment and the car, as detailed in Appendix A) we relied on the data inherently built into SimaPro's databases. Water usage associated with the rebound effects relating to use of the washing machine and dishwasher have not been considered in the model as this impact is considered negligible compared to the overall impacts of the project.



Life Cycle Impact Results

4.1 Introduction

SimaPro offers the possibility to run a model using a range of standard impact assessment methods. As explained in Section 2.5, the method chosen for the project was CML2001 V2.0 – Australian toxicity factors.

The key impacts being considered by the chosen model are in two main classes:

- exhaustion of raw materials and energy; and
- pollution.

The indicators for these are specified below and are defined in Table 2-1 (in Section 2.5):

- Exhaustion of raw materials and energy: Abiotic Depletion.
- Pollution: Global warming, Human Toxicity and Photochemical oxidation.

The reason these indicators have been chosen is explained in Section 2.5 of this report.

To assess the relative importance of each impact indicator, three approaches are generally adopted by LCA practitioners.

- benchmarking life cycle impact category values for teleworking from other similar LCA studies either Australian or International;
- comparing the life cycle impact category values on a regional or national scale. One drawback in this approach is significant data gaps and data uncertainty in the state of the national or regional environment; and
- comparing the life cycle impact category values for comparable environmental damage (5% destruction of native/pristine ecosystem) and/or human damage (Disabilities Adjusted Life Years). A potential drawback of this approach is that it is inherently complex and there are uncertainties in estimating pathways and damage functions for a myriad of life cycle impact categories.

The higher the impact category values, the greater the harmful effects of those impacts, and therefore less environmentally preferable are those activities that cause those impacts.

A simpler way is to compare the impacts with other points of reference, such as the impact of well-known activities or product as is the case in Table 4-1. For example, the net abiotic depletion impact value of 1.6 kg Sb equivalent contributed by one teleworker (Table 4-1) is roughly equal to the abiotic depletion impact associated with the petrol consumed by a car travelling 778 km. The human toxicity impact value of 45.9 kg 1,4-DB equivalent contributed by one teleworker (Table 4-1) is roughly equal to the human toxicity impact associated with growing 4 tonnes of Australian wheat¹² or the life cycle impacts of the production of 100 litres of Australian lager beer.

4.2 Interpretation of results

The total life cycle impact values for non-teleworking and teleworking are presented in Table 4-1 for one employee equivalent, representing the comparison of the impact of one non-teleworking employee with one teleworking employee (this is a combination of 50% of the impact of a 2 days teleworker and 50% of the impact of a 4 days teleworker). While this is a purely artificial construction, it enables us to form a judgment on the benefit of teleworking.

For one employee equivalent, Table 4-1 demonstrates that for each indicator, the impact associated with non-teleworking is greater than that associated with teleworking, except for human toxicity (the reason for



¹² V.Narayanaswamy et al, 2004.

Life Cycle Impact Results

this is explained in Section 4.3). The comparative data indicates that the difference for human toxicity is relatively small (equivalent to human toxicity in life cycle production of 100 litres of Australian beer or growing 4 tonnes of Australian wheat or a tonne of Australian lupins ¹³).

For abiotic depletion, global warming and photochemical oxidation, comparison has been made with the number of kilometres of car travel that would produce the same impact (based on the same consumption data as has been used for car travel in the model, refer Table 4-1).

Table 4-1 Impacts of non-teleworking compared to teleworking for one employee equivalent alongside comparative data

Impact category	Unit	Non- teleworking	Teleworking	Difference between non- teleworking and teleworking	Comparative data
Abiotic depletion	kg Sb eq	32.9	31.3	1.6 (positive impact)	Equivalent to the impact of the consumption of petrol by a car travelling 778 km
Global warming (GWP100)	kg CO2 eq	5,261.6	5,018.9	242.7 (positive impact)	Equivalent to the impact of the consumption of petrol by a car travelling 739 km
Human toxicity	kg 1,4-DB eq	267.5	313.4	-45.9 (negative impact)	Equivalent to the total LCA impact of producing 100L of beer
Photochemical oxidation	kg C2H2	5.6	3.3	2.3 (positive impact)	Equivalent to the impact of the consumption of petrol by a car travelling 2,746 km

When applied to the 3,000 employees, the overall comparative impacts of teleworking and non-teleworking are shown in Table 4-2.

¹³ V.Narayanaswamy et al, 2004.





Life Cycle Impact Results

Some of the avoided impacts are quite significant. For example, the teleworking scenario leads to avoiding the production of 728 tonnes of CO₂ equivalent a year, which is equivalent to the amount of annual CO₂ emissions produced by 168 cars in Victoria¹⁴.

Table 4-2 Overall comparative impacts of non-teleworking and teleworking

Impact Category	Unit	Non- teleworker	Teleworking	Difference between non- teleworking and teleworking
Abiotic depletion	kg Sb eq	98,644	93,959	4,684
Global warming (GWP100)	kg CO ₂ eq.	15,784,804	15,056,843	727,961
Human toxicity	kg 1,4-DB eq	802,526	940,149	-137,624
Photochemical oxidation	kg C ₂ H ₂	16,766	9,886	6,881

The pathway for each type of impact can be mapped out in a flow-chart produced by SimaPro, as shown in Figure 4-1 through to Figure 4-4 and can be used to help explain the results.

In Figure 4-1 through to Figure 4-4, the numbers associated with 2-days teleworking and 4-days teleworking are presented as negatives because of the way the model has been set-up as a comparative model. In the model, teleworking impacts were subtracted from the impacts associated with nonteleworking. This allows determining the overall difference between the impacts caused by the two scenarios. The number presented at the top of the flow chart is the overall difference. A positive number means that the impacts associated with non-teleworking are greater than those associated with teleworking (as is the case in Figure 4-1) and a negative number means the impacts associated with teleworking are greater than those associated with non-teleworking (as is the case in Figure 4-2). The thickness of the lines linking activities represents the contribution that activity makes to the overall impact.



¹⁴ Sustainability Victoria – personal communication, date: 25 June 2007

Figure 4-1 Global warming flow-chart

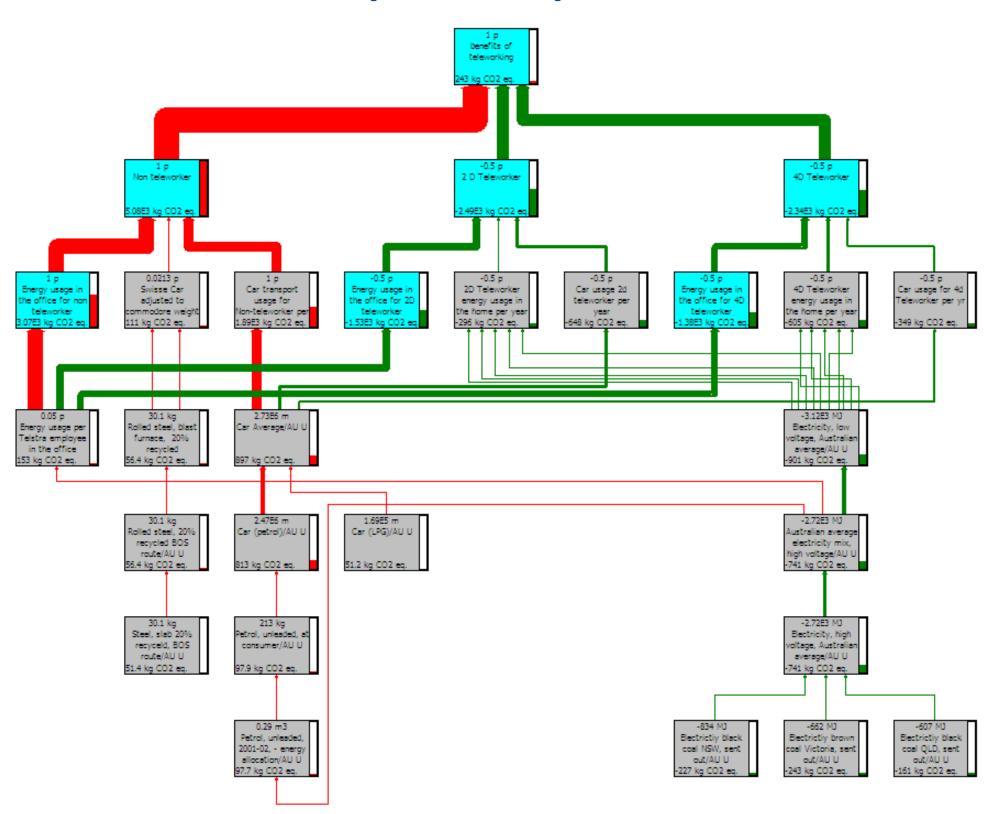


Figure 4-2 Human toxicity flow chart

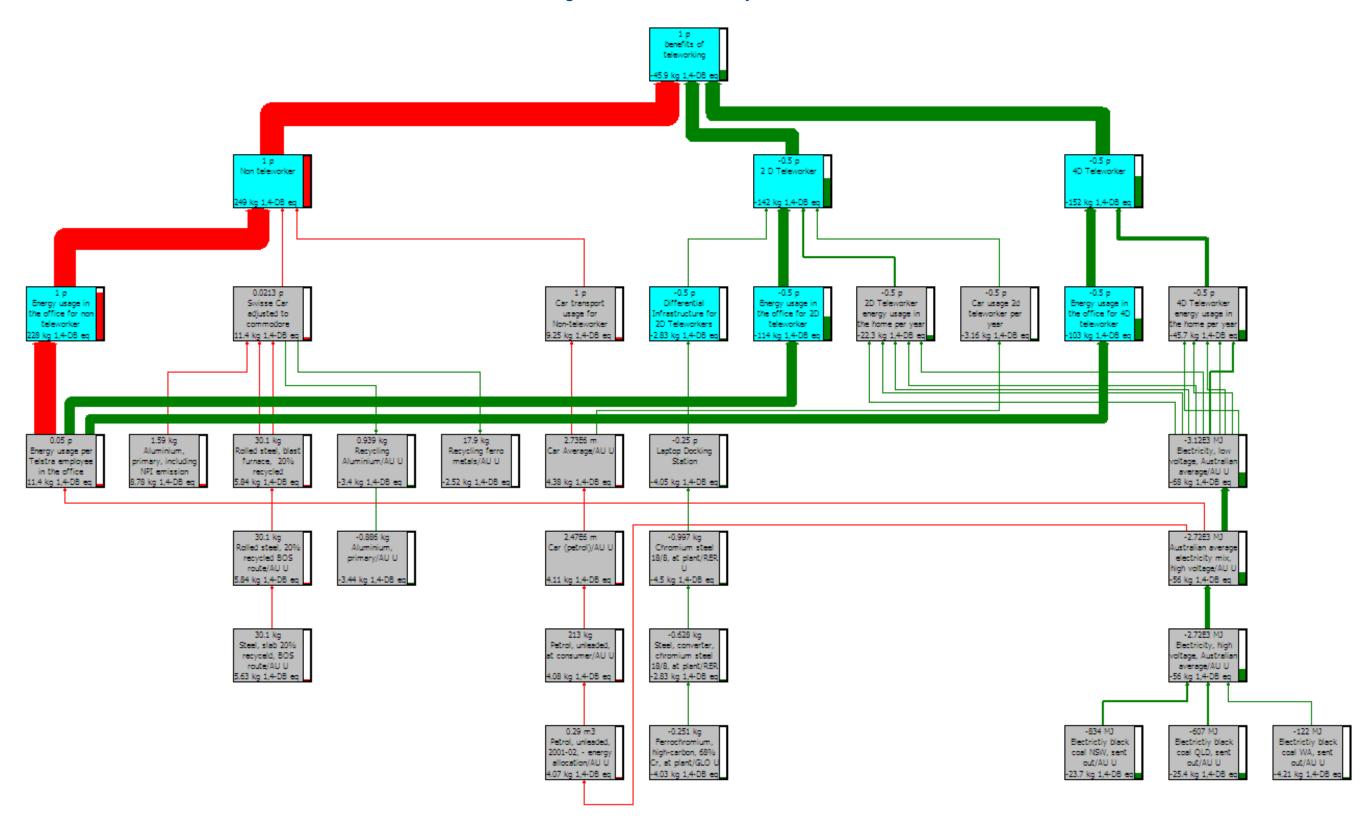
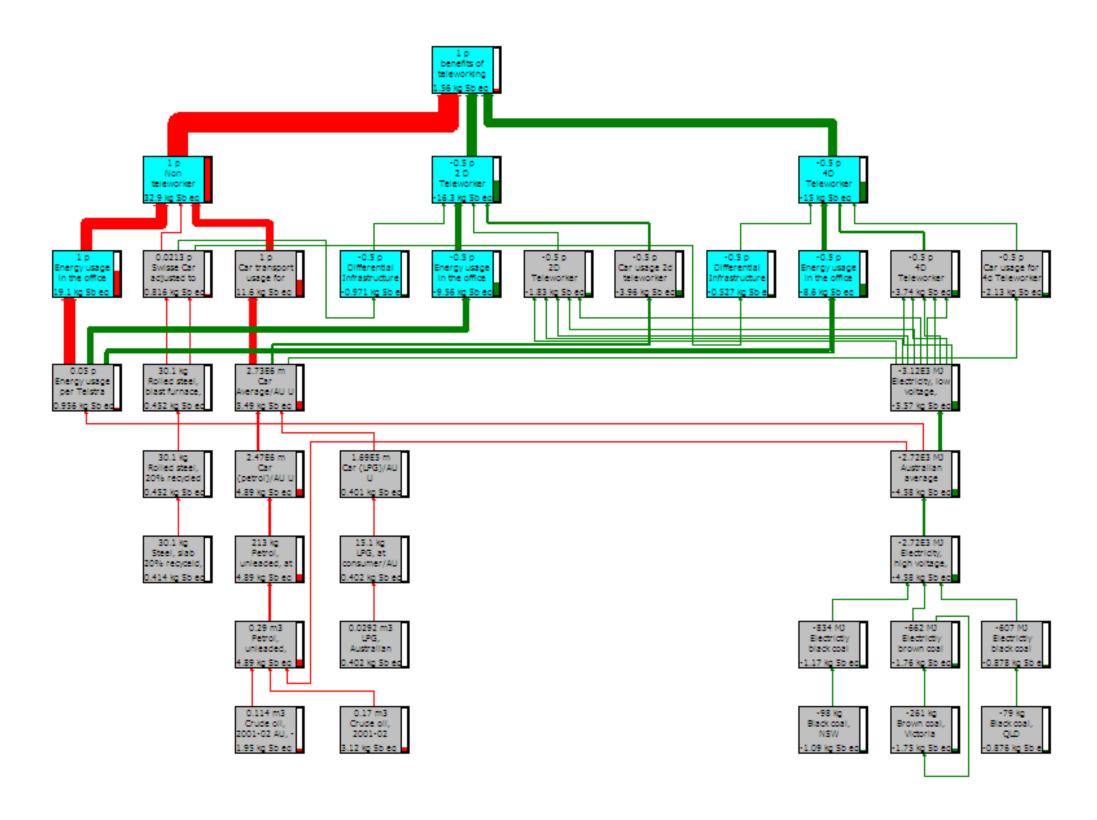
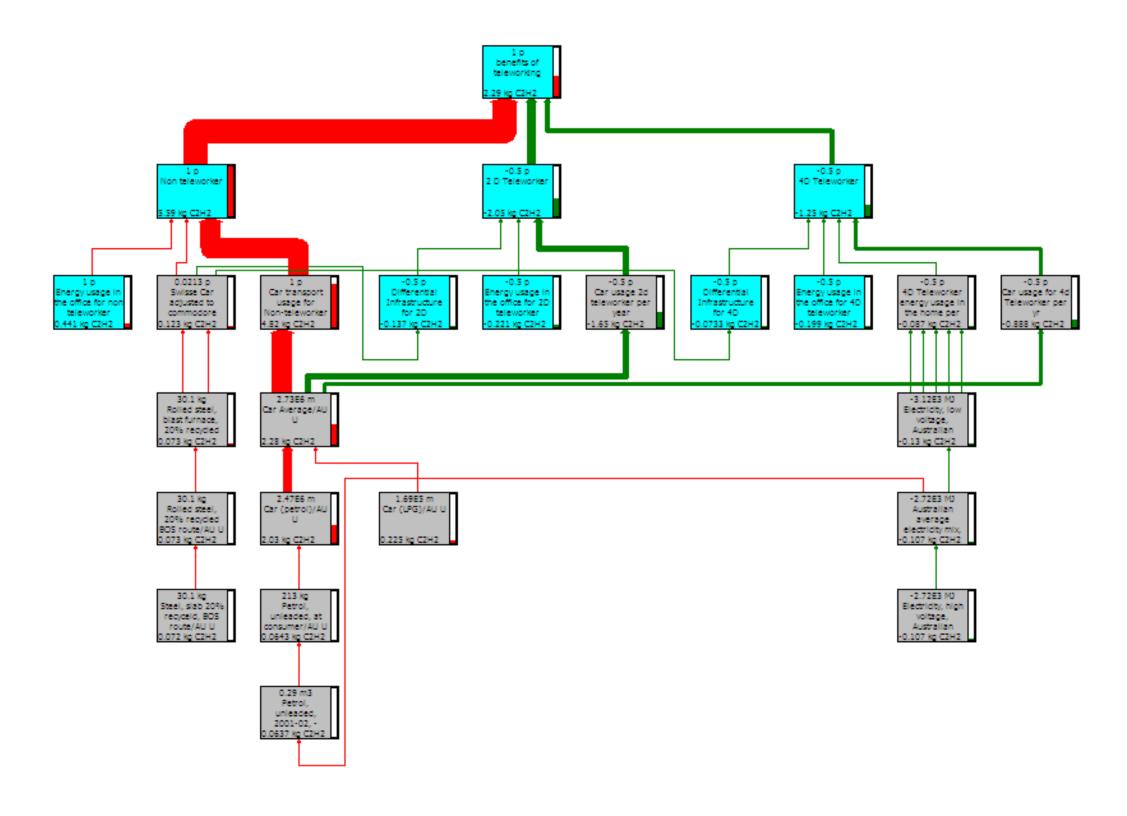


Figure 4-3 Abiotic depletion flow chart



Photochemical oxidation flow chart Figure 4-4



Life Cycle Impact Results

4.3 Contribution analysis

To assess the contribution of different activities to the overall result, graphs and tables from SimaPro were used and the model was manipulated to allow the data to be viewed from different points of view. The key flow charts produced and used are Figure 4-1 through to Figure 4-4 and those presented in Appendix B (Figure B through to Figure B). The key data obtained is captured in Table 4-3. For each impact category, Table 4-3 shows the key contributing processes (including the size of the impact). The key processes for each contributor and the percentage of the contributor's impact that the process represents is also highlighted. The key inventory data (i.e. data representing > 5% of the impact) for the key contributors is also shown in this table as well as the percentage of the inventory which the item amounts to.

Table 4-3 Key contributors, processes and inventory for each impact category

Impact Category	Key Contributor	Amount	Key Processes	%	Inventory	%
Global Warming	Energy usage in the home -901 kg CO ₂ eq		Electricity, brown coal, Victoria	-33.5	Carbon Dioxide (air)	- 96.9
			Electricity, black coal, QLD	-30		
			Electricity, black coal, NSW	-22		
	Transportation	897 kg CO ₂ eq	Petrol	79.7	Carbon Dioxide (air)	89.8
Abiotic Depletion	Energy usage in the home	-5.6 kg Sb eq	Electricity, brown coal, Victoria	-39.3	Coal	- 84.8
			Electricity, black coal, NSW	-25.9	Natural Gas	- 7.64
			Electricity, black coal, QLD	-19.6		
			Natural Gas	-7.24		
	Transportation	5.49 kg Sb eq	Crude Oil prod.	87.2	Crude Oil	89.2
			Oil & Gas production	5.43	Natural Gas	11.8
			LPG from natural gas	5.01		
Photochemical Oxidation	Transportation	2.28 kg C ₂ H ₂	Petrol	86.1	Carbon Monoxide (air)	43.4
			LPG	9.44	Non-methane volatile organic compounds (air)	51.4
Human Toxicity	Energy usage in the home	-68 kg 1,4DB	Electricity, black coal, QLD	- 47	Fluoride (air)	- 93.4
			Electricity, black coal, NSW	- 43.4		
			Electricity, black coal, WA	- 7.5		

As highlighted in Table 4-3 the key contributor to **global warming** is energy usage in the home office followed closely by fuel usage associated with transportation. Both of these impacts are contributing in opposite directions, which mean that from a teleworking perspective the environmental benefits associated with less car travel are offset by the impacts associated with energy usage in the home office.



Life Cycle Impact Results

The contribution of energy usage in the company office is not a major component overall because under the model it is assumed to be fairly common to both scenarios (for non-teleworkers - 100% and teleworkers – 95%, allowing for office space consolidation). As this is a differential LCA, the impact is therefore cancelled out to a large extent. However, it is still a key component, as without the savings achieved in the company office, the overall results would be reversed. It is also noted that the model's assumption that only 10% of the 4-day teleworking space (and therefore 5% of the total space occupied by teleworkers) is immediately consolidated, is considered very conservative.

The key contributors for abiotic depletion are the same as those identified for global warming (refer to Figure 4-3 and Figure B and Table 4-3).

Transportation is the key contributor for **photochemical oxidation** with the benefit of teleworking almost directly proportional to the avoided car travel distance (refer to Figure 4-4 and Figure B).

For **human toxicity** the key contributor is energy usage in the home office. For this impact category the benefits associated with reduced car travel highlighted by the global warming indicator, are not replicated to the same degree. Indeed, when considering human toxicity, car fuel is less harmful than black coal used for electricity generation (refer to Figure 4-2 and Figure B). Energy usage in the home office is assumed to be electricity, produced essentially from black coal, as indicated in Table 4-3. Therefore, the human toxicity impacts associated with energy usage in the home office are not offset by the savings achieved through reduced car travel, as is the case for the other impact categories 15. Hence, human toxicity impacts associated with teleworking are greater than those associated with non-teleworking, because teleworkers altogether use more electricity (sourced from black coal) than non-teleworkers ¹⁶.

One major conclusion arises from this analysis: overall, energy usage from transport and from the home office and company office environments are the key contributing pathways. Rather than focus on all four indicators for the sensitivity analysis, it was decided to mainly focus on global warming. This is because global warming is the most relevant indicator (given the key contributing activities) and provides more reliable data (as its pathways are well known).

Although the difference associated with the human toxicity is relatively small, a sensitivity analysis was applied to human toxicity, as it is the only impact category which suggests that the impacts associated with teleworking are greater than those associated with non-teleworking. The results are summarised in Section 5.2

It should be noted that human toxicity pathways are not as well known as global warming pathways and therefore the data embedded in the SimaPro database with regards to human toxicity must be interpreted with caution (personal communication: SimaPro distributors)



¹⁵ If heating in the home office was sourced from gas instead of electricity human toxicity impacts would change from -45.9 kg 1,2 DB eq to -28.5 kg 1,2 DB eq

Sensitivity Analysis

To test the robustness of the initial key conclusion that the impacts associated with non-teleworking are greater than those associated with teleworking, we undertook a sensitivity analysis on data associated with the key contributors identified in Section 4.3.

5.1 Global warming

The global warming flowchart, shown in Figure 4-1 and Figure B and Table 4-3, in conjunction with the model input data was used to determine the most important parameters associated with the key contributors that the sensitivity analyses should focus on. The most important parameters are those that have the biggest impact on key contributors. For example, for energy usage in the home office, analysis of the data showed that heating and cooling activities consumed the most energy and therefore parameters associated with heating and cooling were tested for sensitivity. The following parameters were used in the sensitivity analysis:

- Car transportation usage:
 - percentage of employees commuting to work by car; and
 - average kilometres travelled by employees, by car to get to and from work.
- Energy usage in the company's office:
 - quantity of energy consumed in the office; and
 - percentage of office space consolidated due to hot-desking arrangements for teleworkers.
- Energy usage in the home office:
 - overall home office energy usage variation; and
 - energy usage of heating / cooling specifically.

The sensitivity analysis demonstrates that the most sensitive parameters are:

- Percentage of employees commuting to work by car;
- Average kilometres travelled by employees, by car to get to and from work; and
- Overall home office energy usage variation.

The analysis shows that the environmental impacts associated with teleworking become greater than non-teleworking when;

- less than approximately 60% of the workforce commutes to work by car; or
- an employee commutes less than 25-30 km a day; or
- an employee uses more than 1,039 1,212 kWh per year of energy in the home office.

The result for these sensitivity analyses are described in detail below.



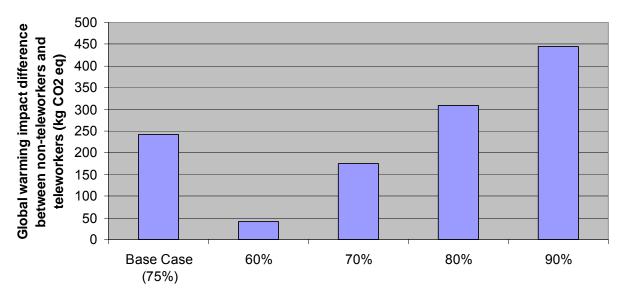
Sensitivity Analysis

5.1.1 Car transportation

Percentage of employees commuting to work by car

The results of the sensitivity analysis for the percentage of employees commuting to work by car are shown in Figure 5-1. In the base case it is assumed that 75% of employees commute to work by car (see Table 3-1). In this situation, the difference in the global warming impact caused by non-teleworkers and teleworkers is approximately 240 kg of CO_2 eq., that is a non-teleworker produces 240 kg of CO_2 eq. more than a teleworker. The impact caused by a non-teleworker compared to a teleworker increases when the proportion of employees commuting by car increases and decreases when the proportion of employees commuting by car decreases. However, even if only 60% of employees commute to work by car, the global warming impacts associated with non-teleworking are still greater than those associated with teleworking.

Figure 5-1 Global warming impact benefit (difference between teleworking and nonteleworking) associated with different percentages of employees commuting to work by car



Percentage of employees commuting via car to work

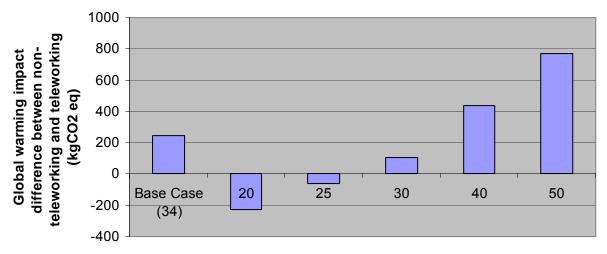


Sensitivity Analysis

Average number of kilometres travelled by employees, by car to get to and from work

The results of the sensitivity analysis for the average kilometres travelled by employees, by car to get to and from work are presented in Figure 5-2. In the base case it is assumed that employees on average commute 34 km to get to and from work. In this situation non-teleworkers are responsible for approximately 240 kg of CO_2 eq. more than teleworkers. This difference increases and decreases with the number of kilometres travelled. When an employee travels 25 km or less to get to and from work, the global warming impact for teleworkers becomes greater than the impact associated with non-teleworkers.

Figure 5-2 Global warming impact benefit (difference between teleworking and nonteleworking) associated with kilometres travelled



Kilometers travelled



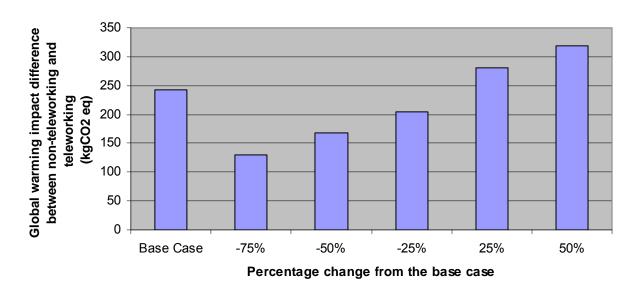
Sensitivity Analysis

5.1.2 Energy usage in the Company office

Amount of energy used in the company office

The results of the sensitivity analysis for energy usage in the company's office are presented in Figure 5-3. In the base case it is assumed that the average company building consumes 246 kWh/m² year of electricity and 0.075 GJ/m² year of gas. When the amount of energy consumed in the company's office increases the difference between the global warming impacts for non-teleworking and teleworking increases, and decreases as the amount of energy decreases. A 75% reduction in present average energy consumption at Telstra's office still results in the global warming impact for non-teleworkers being greater than the impact associated with teleworkers.

Figure 5-3 Global warming impact benefit (difference between teleworking and nonteleworking) associated with changes in energy usage in the average company office



Percentage of the company's office space consolidated due to hot desk arrangements for teleworkers

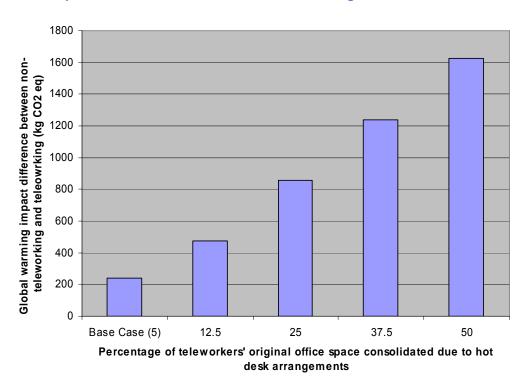
The results of the sensitivity analysis for the percentage of office space saved when employees' hot-desk is captured in Figure 5-4. In the base case only 4-day a week teleworkers hot desk and they share one desk amongst 4 employees. It is assumed in this scenario that the company would immediately reduce the space occupied by 4-day teleworkers by 10%, which represents 5% of the space occupied by all teleworkers and therefore would result in a 5% reduction in energy usage.

Figure 5-4 highlights that the difference in kg of CO_2 -eq increases, as the consolidation of space increases and therefore energy use decreases. If 50% of the space originally occupied by teleworkers is immediately consolidated due to a combination of 4-day and 2-day teleworkers hot-desking, then up to 1,624 kg CO_2 eq could be saved.



Sensitivity Analysis

Figure 5-4 Global warming impact benefit (difference between teleworking and nonteleworking) associated with changes in the percentage of teleworkers' original office space consolidated due to hot desk arrangements for teleworkers



5.1.3 Energy usage in the home office

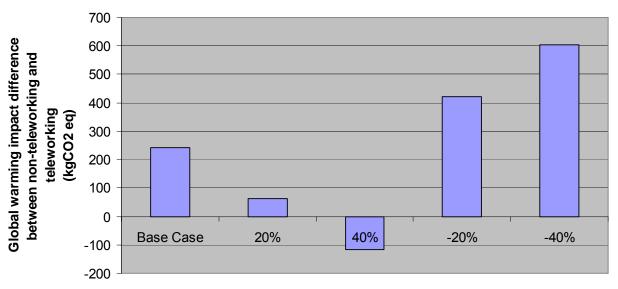
Overall home office energy usage variation

The results of the sensitivity analysis for energy usage in the home office are presented in Figure 5-5. In the base case, it is assumed that the average home office consumes 866 kWh of energy per year (including rebound effects). As could be expected, the benefits associated with teleworking decrease when energy consumption in the home office increases, and increases when the home office energy consumption decreases. When the consumption level is increased by around 30%, the global warming impact for non-teleworkers becomes greater than the impact associated with teleworkers.



Sensitivity Analysis

Figure 5-5 Global warming impact benefit (difference between teleworking and nonteleworking) associated with varying levels of home office energy consumption



Percentage variation on the base case

Energy usage in the home office associated with heating and cooling specifically

The results of the sensitivity analysis for energy usage associated with heating the home office are presented in Figure 5-6. In the base case, it is assumed that the average home office requires heating for 7 hours a day, 11 weeks of the year. When the number of heating hours increases, the difference between the global warming impact for non-teleworking and teleworking decreases, or, conversely, increases as the number of hours decreases. Even when the number of heating hours is increased to 9, the global warming impact of non-teleworking is still greater than the impact associated with teleworking.

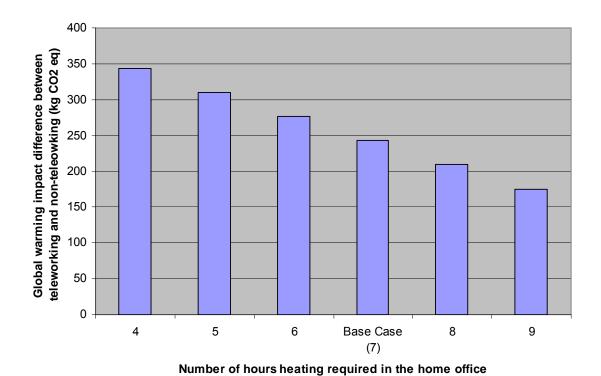
The results of the sensitivity analysis for energy usage associated with cooling are presented in Figure 5-7. In the base case, it is assumed that the average home office requires cooling for 7 hours a day, 11 weeks of the year. When the number of cooling hours increases, the difference between the global warming impact for non-teleworking and teleworking decreases, and, conversely, it increases as the number of hours decreases. Even when the number of cooling hours is increased to 9, the global warming impact for non-teleworkers is still greater than the impact associated with teleworkers.



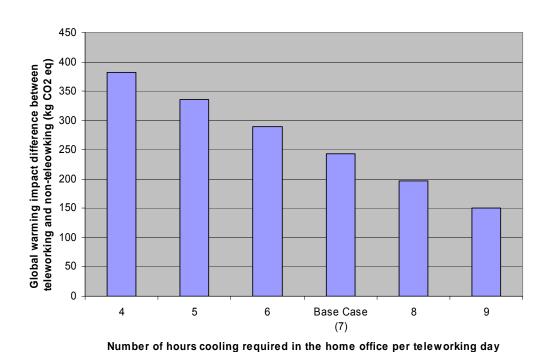
Figure 5-7

Sensitivity Analysis

Figure 5-6 Global warming impact benefit (difference between teleworking and nonteleworking) associated with varying hours of home heating required



-7 Global warming impact benefit (difference between teleworking and non-teleworking) associated with varying hours of home cooling required



Sensitivity Analysis

5.2 Human toxicity

As discussed in Section 4.3, it was decided to mainly focus on global warming. However, as human toxicity results go in the opposite direction to global warming (i.e. for human toxicity the impacts associated with teleworking are greater than those associated with non-teleworking), it was considered useful to also conduct some sensitivity analysis on human toxicity impacts. The analysis was undertaken to determine how sensitive human toxicity results are to changes in some parameters and to identify in which situations the overall direction of the results would change.

The process applied to global warming was also applied to human toxicity. Sensitivity was applied to the following parameters (chosen because of their association with the key contributors):

- Energy usage in the company office:
 - quantity of energy consumed in the office; and
 - percentage of company's office space consolidated due to hot desking arrangements for teleworkers.
- Energy usage in the home office:
 - overall home office energy usage variation; and
 - energy usage of heating / cooling specifically.

The result for these sensitivity analyses are provided in Appendix C. In the analysis, human toxicity impacts associated with teleworking become less than the non-teleworking when the company is able to immediately consolidate 25% of the original office space occupied by teleworkers.

Overall, the analysis demonstrates that none of the parameters are very sensitive with regards to human toxicity impacts. This illustrates that human toxicity impacts are not very dependant on the amount of energy used, but depend on the source of the energy as discussed in Section 4.3.



Data Quality Evaluation

This section analyses the life cycle inventory and impact assessment results against the stated goal and scope definition of the LCA and provides quantified and accurate interpretations of the results. It deals with issues of data consistency, variability, uncertainty (dealt with in section 6.2) and completeness (dealt with in section 6.1) and discusses how these affect the interpretation and the meaning of the results and findinas.

6.1 Consistency check

- The system boundaries and allocation procedures have been uniformly applied throughout the life cycle analysis process. All reported resource inputs and emissions under the chosen sub-systems have been considered for the inventory analysis and impact assessment.
- The decision to upgrade, replace or purchase home heating and cooling devices or any other home equipment is not affected by teleworking but their usage increases with teleworker days. While it is acknowledged that this assumption is probably not conservative, attempting to factor this in would potentially lead to misleading results (e.g. behavioural studies would need to be included).
- The emissions associated with fluorocarbons (HFCs and HCFCs) due to air conditioning and refrigeration in residential buildings and commercial buildings are assumed to be the same. Even though commercial equipment produces more emissions purely based on its size, the cumulative impact of residential emissions is likely to result in this assumption being found reasonable.
- It has been assumed that car commuters are travelling alone in their car, which might not be the case. However, part, if not all, of this impact is captured through the car usage rebound impact for teleworkers.
- The life cycle impacts of a desktop or laptop computer are the same. This is questionable but the difference is unlikely to be significant enough to influence the results of the model. If anything, this assumption is overly conservative, as power usage and lifecycle impacts of a laptop are generally smaller than those of a desktop computer.
- Other assumptions made may be considered as overly conservative and are likely to compensate those highlighted above. In particular, it has been assumed that employees working from home would be alone at home, whereas it is likely that a significant proportion of them would have family at home regardless of whether they telework or not. This has direct implications on impacts associated with energy usage, and rebound effects for teleworkers.

6.2 Completeness check

The life cycle impact assessment covered a significant range of impact categories and emission substances. However, due to the project scope, timeframes and resources, the model is based on a number of key assumptions, which if changed may have significant impacts on the results obtained.

- The life cycle impacts associated with the infrastructure required for lighting, heating and cooling in a residential building compared to a commercial building were assumed to be the same. At present, LCA data associated with this infrastructure are not available and the project team felt that obtaining such data would be a separate project in itself.
- It was assumed that a teleworker and a non-teleworker consume the same amount of water and office resources such as paper and basic stationary items, and produce the same amount of waste (including human waste) and wastewater. Therefore, with the exception of the solid waste associated with the disposal of a car and office equipment, these aspects have not been considered in the model. This assumption seems reasonable as basic human needs and behaviour regarding office resources are not expected to change significantly based on where an employee works¹⁷.

¹⁷ With regards to paper consumption, James (2004) shows that the response is mixed with some teleworkers indicating that paper consumption increases as a result of teleworking while others indicate a decrease.



Data Quality Evaluation

- The impacts on the ADSL or phone network associated with the teleworking of Telstra's employees
 were assumed to be negligible (assumption of 3,000 employees teleworking see 1.4). This
 assumption seems reasonable given the small number of potential teleworkers compared to the
 overall number of ADSL or phone users in Australia.
- It is assumed that the effort of heating and cooling a building is not dependant on the number of people in the building. This assumption seems reasonable based on the relatively small percentage of people teleworking compared to the total workforce.



Conclusion and Recommendations

The lifecycle assessment of teleworking shows that, using Telstra as an example, and based on the data and assumptions laid out in this report, implementing a teleworking policy can avoid a number of environmental impacts. This overall conclusion should not hide the fact that some indicators are slightly negative. While the results are robust and the conclusion remains true in most cases covered in the sensitivity analysis, the following key parameters greatly influence the magnitude of the environmental benefits from teleworking:

- the longer the commuting distance, the greater the environmental benefits;
- the more efficient the company buildings are, the less the environmental benefits;
- the larger the amount of space occupied by teleworkers that can be immediately consolidated within the company offices due to hot-desk arrangements, the greater the environmental benefits;
- the more energy efficient the home office set up, the greater the benefits; and
- the more the home office is relying on "cleaner" energy sources, the better (for example gas for heating rather than electricity from coal).

This has practical implications for the definition and implementation of teleworking in a company and therefore the following recommendations have been made, which would also be valid for any organisation willing to implement teleworking.

Recommendations

- 1) Arrangements should be made to encourage all teleworking employees (both 2-day and 4-day) to hot-desk when they are in the company office.
- 2) The space created through hot-desk arrangements in company's office should be consolidated as quickly as possible so that the energy and financial benefits can be recognised.
- 3) Employees should be encouraged to ensure that their home office set up is as energy efficient as possible. For example, they should rely as much as possible on natural lighting and/or utilising energy efficient bulbs and use the most efficient heating/cooling devices and home appliances.
- 4) The company could consider contributing to energy efficiency set-ups by providing an energy efficient kit for teleworkers which could include products such as energy efficient light bulbs and guidance on how to undertake an energy efficiency audit of the home.
- 5) Employees should be made aware of the impacts of rebound effects and encouraged to restrict the amount of lighting or heating and cooling outside their home office environment.



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Limitations

URS Australia Pty Ltd (URS) has prepared this report in accordance with the usual care and thoroughness of the consulting profession for the use of Telstra and only those third parties who have been authorised in writing by URS to rely on the report. It is based on generally accepted practices and standards at the time it was prepared. No other warranty, expressed or implied, is made as to the professional advice included in this report. It is prepared in accordance with the scope of work and for the purpose outlined in the Proposal dated 16 February, 2007.

The methodology adopted and sources of information used by URS are outlined in this report. URS has made no independent verification of this information beyond the agreed scope of works and URS assumes no responsibility for any inaccuracies or omissions. No indications were found during our investigations that information contained in this report as provided to URS was false.

This report was prepared between 12 May, 2007 and 10 December 2007 and is based on the conditions encountered and information reviewed at the time of preparation. URS disclaims responsibility for any changes that may have occurred after this time.

This report should be read in full. No responsibility is accepted for use of any part of this report in any other context or for any other purpose or by third parties. This report does not purport to give legal advice. Legal advice can only be given by qualified legal practitioners.



Life Cycle Impact Data for Office Equipment

Data sources for equipment materials

Note:

AU: Australian Data 2005

RER: Ecoinvent system process (European database)

Table A-1 LCI data for a desk top telephone

	Amount	Unit	Source	Notes
Materials ¹		•	•	
ABS, Acryloniril butastyrene	0.6204	kg	AU	
Steel, electric, un-and low alloyed	0.12549	kg	RER	Doesn't include transportation from the foundry to manufacturing plant
HDPE, High density polyethylene	0.3243	kg	AU	
Copper	0.07755	kg	AU	
Printed board I	0.03666	kg	AU	
Wire drawing, copper	0.07755	kg	RER	
Processes				
Injection moulding	0.6204	kg	AU	This is a proxy for energy used in the manufacturing process
Waste disposal				
Landfill inert waste	1.1844	kg	AU	
Life	3 years			

Source: Environment Canada, 2000

Table A-2 LCI data for a steel frame office chair

	Amount	Unit	Source	Notes			
Materials ¹							
Chromium Steel 18/8	1.429	kg	RER				
Aluminium Alloy AlMg3	.6	kg	RER				
Polyurethane, flexible foam	.65	kg	RER				
Waste disposal							
Aluminium Waste	6	g					
Steel Waste	14.06	g					
Textile Waste	52	g					
Life	10 years						

Reference: J. von Geibler et al, 2003



Life Cycle Impact Data for Office Equipment

Table A-3 LCI data for a power adapter for computer

	Amount	Unit	Source	Notes					
Materials ¹	Materials ¹								
HIPS, High Impact Polysterene	89.25	g	RER						
Chromium Steel 18/80	178.50	g	RER						
PVC, Polyvinyl Chloride	35.70	g	AU						
Copper	53	g	AU						
Wire drawing, copper	53	g	RER						
Processes									
Injection Moulding	35.70	g	AU	This is a proxy for energy used in the manufacturing process					
Waste disposal									
Landfill inert waste	356.45	g	AU						
Life	3 years								

Reference: J. von Geibler et al, 2003

Table A-4 LCI data for an office desk

	Amount	Unit	Source	Notes					
Materials ¹	Materials ¹								
Chromium Steel 18/80	500	g	RER						
Glue Laminated Timber, indoor use	.06	m3	RER						
Melamine Formaldehyde resin	500	g	RER						
Processes									
Australian average electricity mix, high voltage	20	kWh	AU	This is a mix of energy used in the process of manufacturing the laminated timber and the desk itself. (Estimates only)					
Waste disposal	Waste disposal								
Landfill inert waste	3	kg	AU						
Life	10 years								

Reference: M.D. Bovea and R. Vidal, 2003



Life Cycle Impact Data for Office Equipment

Table A-5 LCI data for a computer modem

	Amount	Unit	Source	Notes			
Materials ¹							
PVC, Polyvinyl Chloride	5.88	g	AU				
Steel Slab	8.12	g	AU				
Electronics for Control units	13	g	RER				
Processes	•						
Injection Moulding	5.88	g	AU				
Waste disposal							
Landfill inert waste	27	g	AU				
Life	3 years						

Reference: J. von Geibler et al, 2003

Table A-6 LCI data for a mobile phone

		Amount	Unit	Source	Notes	
	Materials ¹					
Mobile Phone Electronics	Printed Board	11.22	g	AU		
	IC's (weight)	6.66	g	AU		
	ABS, Acrylonitrile- butadiene-styrene copolymer	1.54	g	RER		
	Tin	3.03	g	AU		
	Copper (Electro- refining)	.41	g	AU		
	Rolled Steel 20% recycled (BOS route)	.56	g	AU		
	Wire drawing, copper	.41	g	RER		
Mobile Phone Casing	Acrylonitrile- butadiene-styrene copolymer, ABS	27.53	g	RER		
	Synthetic rubber, at plant	0.62	g	RER		
	Copper (Electro- refining)	1.28	g	AU		
	Gold	0.08	g	AU		
	Aluminium, primary	1.43	g	RER		
Mobile Phone Battery	ABS, Acryloniril butastyrene	10.31	g	AU		
	Tin	0.37	g	AU		
	Printed board	0.41	g	AU		
	Processes					



Life Cycle Impact Data for Office Equipment

		Amount	Unit	Source	Notes
	Materials ¹				
Mobile Phone Electronics	Injection Moulding	1.54	g	AU	This is a proxy for energy used in the manufacturing process
Mobile Phone Casing	Injection moulding	27.53	g	AU	This is a proxy for energy used in the manufacturing process
Mobile Phone Battery	Injection moulding	10.31	g	AU	This is a proxy for energy used in the manufacturing process
	Waste disposal				
Mobile Phone Electronics	Land inert waste	23.42	g	AU	
Mobile Phone Casing	Landfill inert waste	30.94	g	AU	
Mobile Phone Battery	Landfill inert waste	11.09	g	AU	
	Life	3 years			

Source: Tan, 2005

Table A-7 LCI data for a mobile phone charging equipment

		Amount	Unit	Source	Notes
	Materials ¹				
Mobile Phone Charger Adapter	Wire drawing, copper	15.28	g	RER	
	Copper	15.28	g	AU	
	PVC, Polyvinyl chloride	15.28	g	AU	
	Printed board	2	g	AU	
	Iron ore	167.68	g	AU	
	ABS, Acryloniril butastyrene	40.73	g	AU	
Mobile Phone Charger	Printed board	17.79	g	AU	
	Copper	3.87	g	AU	
	IC's (weight)	5.32	g	1	
	Tin/AU	0.14	g	AU	
Mobile Phone Charger	ABS, Acryloniril butastyrene	42.35	g	AU	



Life Cycle Impact Data for Office Equipment

		Amount	Unit	Source	Notes
	Materials ¹	•	•		
Casing					
	Copper	33	g	AU	
	Wire drawing, copper	.25	kg	RER	
	PVC, Polyvinyl Chloride	.25	g	AU	
	Aluminium, Primary	210	g	RER	
	Processes				
Mobile Phone Charger Adapter	Injection moulding	40.73	g	AU	This is a proxy for energy used in the manufacturing process
Mobile Phone Charger Casing	Injection Moulding	42.35	g	AU	This is a proxy for energy used in the manufacturing process
	Waste disposal				
Mobile Phone Charger Adapter	Landfill inert waste	268.65	g	AU	
Mobile Phone Charger	Landfill inert waste	27.12	g	AU	
	Life	3 years			

Source: Tan, 2005

Table A-8 LCI data for a laptop docking station

	Amount	Unit	Source	Notes		
Materials ¹		•				
ABS, Acryloniril butastyrene	1.50	kg	AU			
Silicon, electronic grade	200	g	DE			
Chromium Steel 18/80	3.50	Kg	RER			
Copper	200	g	AU			
Wire Drawing, Copper	200	g	RER			
Processes						
Injection Moulding	1.5	kg	AU	This is a proxy for energy used in the manufacturing process		
Waste disposal						
Landfill inter waste	5.4	kg	AU			
Life	3 years					

Source: Estimated materials content based on the weighting of an HP standard docking station



Life Cycle Impact Data for Office Equipment

Table A-9 LCI data for a computer keyboard

	Amount	Unit	Source	Notes		
Materials ¹						
Aluminium alloy, AlMg3, at plant	67.9	g	RER			
Polystyrene, high impact, HIPS, at plant	29.1	g	RER			
ABS, Acryloniril butastyrene	800	g	AU			
Processes						
Injection moulding	800	g	AU	This is a proxy for energy used in the manufacturing process		
Waste disposal						
Landfill inert waste	897	g	AU			
Life	3 years					

Source: Estimated materials content based on the weighting of an HP standard computer keyboard

Table A-10 LCI data for a computer mouse

	Amount	Unit	Source	Notes					
Materials ¹	Materials ¹								
ABS, Acryloniril butastyrene	80	g	AU						
Wire drawing, copper	25	g	RER						
Electronics for control units	5	g	RER						
Copper	25	g	AU						
Processes									
Injection moulding	80	g	AU	This is a proxy for energy used in the manufacturing process					
Waste disposal									
Landfill inert waste/AU U	135	g	AU						
Life	3 years								

Source: Estimated materials content based on the weighting of an HP standard computer mouse (non laser)



Impact Category Flow Charts

The following flowcharts present the same data as the flowcharts shown in the body of the report (Figure 4-1 through to Figure 4-4), but seen from a different angle. Indeed, the same building blocks have been combined differently, with a view to make the differential impacts of the different components of the analysis more obvious. Under "infrastructure differential" the infrastructure for both scenarios is compared with the most significant residual impacts highlighted in the flow chart, that being, in Figure 9-1 the impacts associated with the car. Similarly the difference between the two models with respect to energy usage (in the company office and home office) and transportation usage (ie. fuel consumed) is compared under "Transport usage and energy usage differential per year".

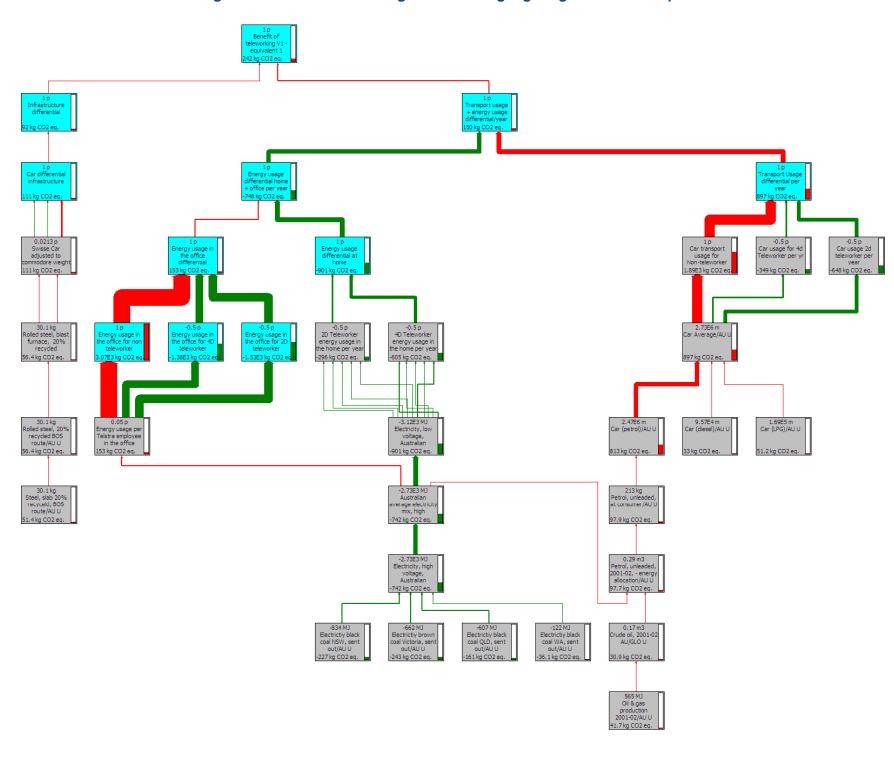
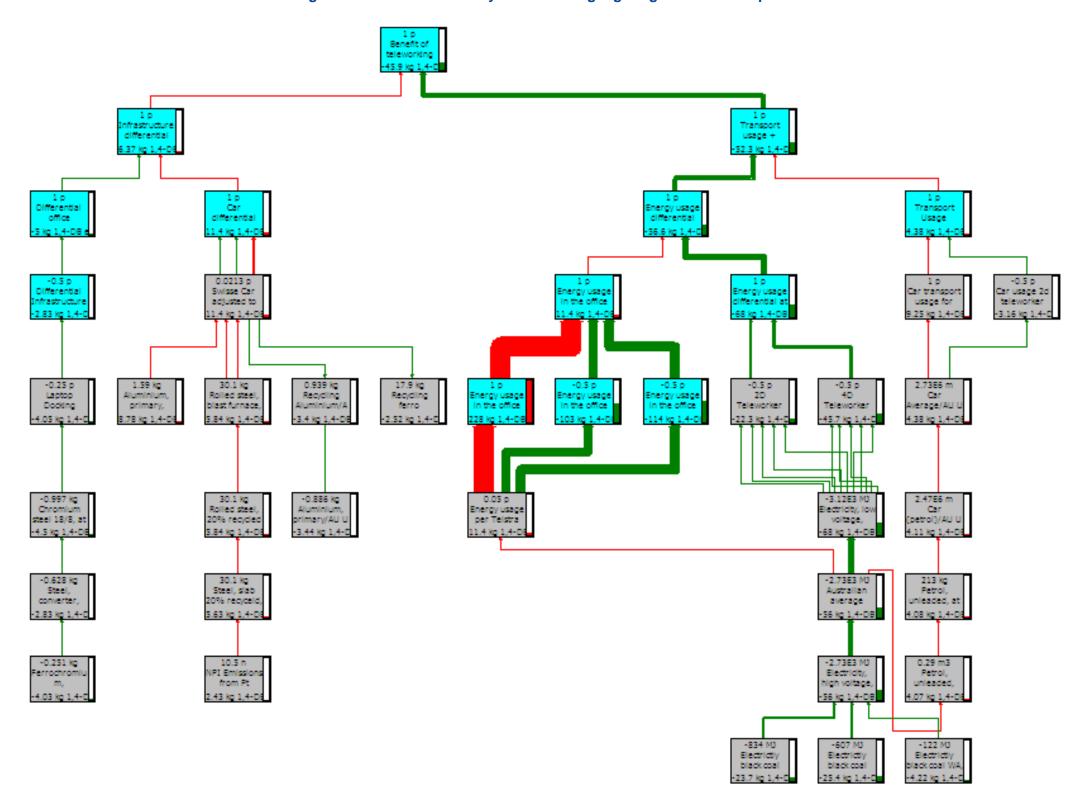


Figure B-1 Global warming flow chart highlighting differential impacts



Impact Category Flow Charts

Figure B-2 Human toxicity flow chart highlighting differential impacts





Impact Category Flow Charts

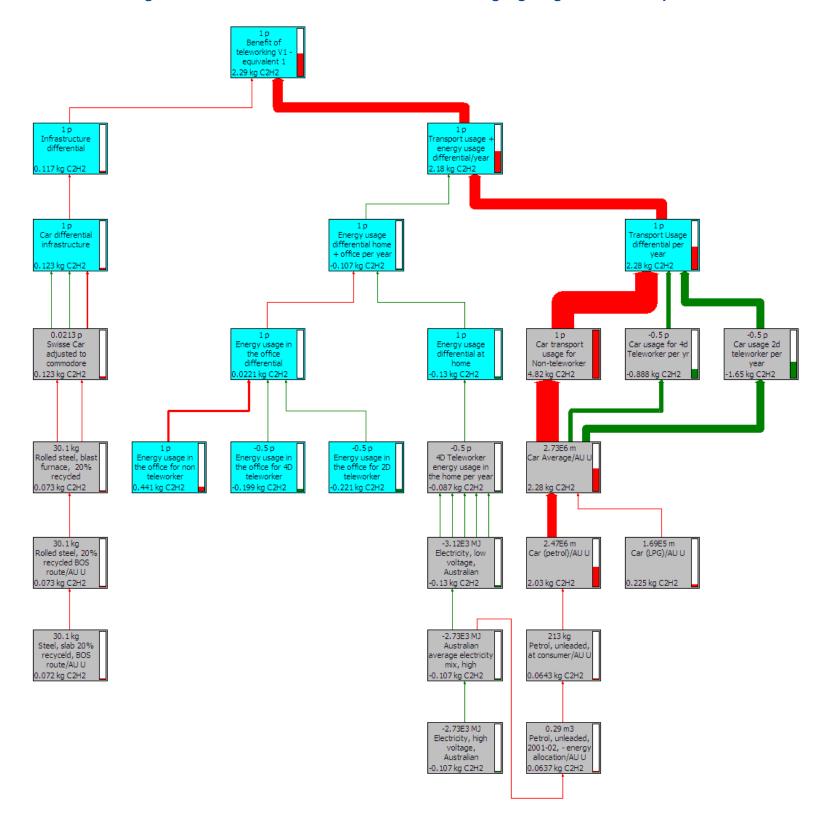
-98 kg Black coal, NSW (2001-02)/AU U -19 kg Black coal, WA (2001-02)/AU U 565 MJ Oil & gas production 2001-02/AU U

Abiotic depletion flow chart highlighting differential impacts Figure B-3



Impact Category Flow Charts

Figure B-4 Photochemical oxidation flow chart highlighting differential impacts

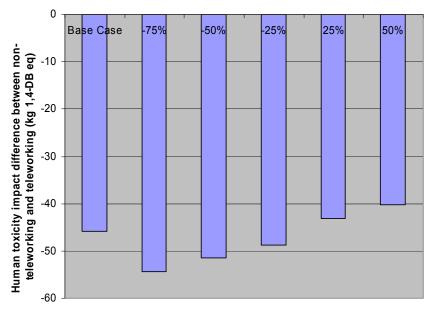




Appendix C

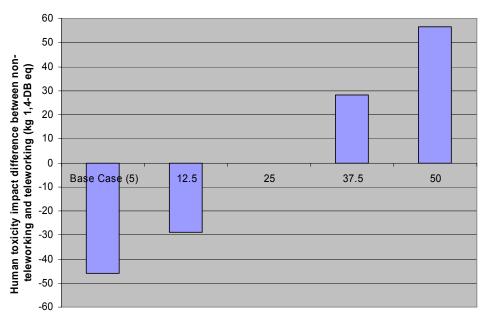
Sensitivity Analysis Results Associated with Human Toxicity

Figure C-1 Human toxicity impact difference between non-teleworking and teleworking associated changes in the amount of energy required for the company's average office



Percentage change from the base case in the amount of energy required for Telstra's average office

Figure C-2 Human toxicity impact difference between non-teleworking and teleworking associated with changes in the percentage of teleworkers' original office space consolidated hot-desking arrangements



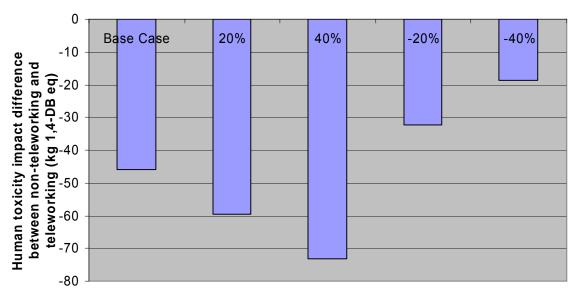
Percentage of teleworkers' original office space consolidated due to hot desk arrangements



Appendix C

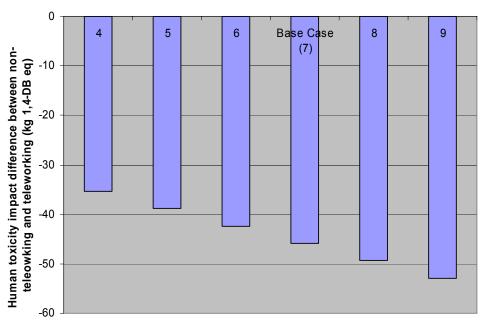
Sensitivity Analysis Results Associated with Human Toxicity

Figure C-3 Human toxicity impact difference between non-teleworking and teleworking associated with variations in the home office energy usage



Percentage variation in energy use in the home office

Figure C-4 Human toxicity impact difference between non-teleworking and teleworking associated with variations in the number of hours cooling is required in the home office



Number of hours cooling required in the home office per teleworking day



Appendix C

Sensitivity Analysis Results Associated with Human Toxicity

Figure C-5 Human toxicity impact difference between non-teleworking and teleworking associated with variations in the number of hours heating is required in the home office



Number of hours heating required in the home office per teleworking day



Desk Top Review of Literature

Context

URS has been engaged by Telstra to complete an assessment of the environmental benefits and costs associated with teleworking. As part of the project URS has undertaken a desktop review. The objective of the desktop review is to identify any existing information that may help inform the project.

Material Reviewed

The following material was identified and reviewed as part of the task:

- 1) E D. Williams, Assessing the potential of telecommuting as an energy saving technology in Japan, United Nations University, 2003.
- 2) E. Kitou & A.Horvard, Energy-related emissions from Telework, American Chemical Society, 6/11/2003.
- 3) European Telecommunications Network Operations Association (ETNO) and WWF, Saving the Climate at the Speed of Light (www.etno.be)
- 4) Orgean Department of Energy, Kaiser Permanente Saves Office and Parking Space Through Telecommuting and Gains Other Advantages, Telecommuting, May 1996
- 5) P. Fries Can ICT Beat CO2?, undertaken for the Global e-Sustainability Initiative (GeSI: www.gesi.org)
- 6) P. James, Is Teleworking sustainable? an analysis of its economic, environmental and social impacts, 2004. On behalf of SusTel.
- 7) Road Traffic Authority NSW's Teleworking Pilot Project, Teleworking a flexible working opportunity, 1993/94 (www.rta.nsw.gov.au)

AT&T, Bell Canada and British Telecom's websites were also included in the review.

Findings

The findings from the review suggest that a number of companies have benefited from their teleworking programs, however, not a lot of information could be found that extensively quantified the environmental costs and benefits. Where the benefits are quantified the information provided was generally limited, for example Fries (5) simply states that "15,000 Bell Canada employees telecommute, saving 6,000 tonnes of CO2 a year". The scope, boundaries and assumptions behind calculations are not often revealed. Two exceptions were the studies completed by Williams (1) and Kitou & Horvard (2).

A summary of the key findings are provided in the following table:



Source	Assessing the potential of telecommuting as an energy saving technology in Japan	2. Energy-related emissions from Telework	4. Kaiser Permanente Saves Office and Parking Space Through Telecommuting — and Gains Other Advantages	6. Is Teleworking sustainable? – an analysis of its economic, environmental and social impacts,	7. Teleworking a flexible working opportunity
Context	Provides an estimate of the potential for telecommuting to save energy across Japan.	Quantifies the greenhouse gas and other air emissions associated with teleworking and non-teleworking scenarios.	Outcomes from Kasier Permanente teleworker program trial for 12 employees.	Summarises the results of SUSTEL (Sustainable Teleworking), a European Commission research project on the social, economic and environmental consequences of telework.	Provides a summary of the planning, implementation, and findings of the RTA Teleworking Pilot Project 1993/94.
Transportation		The average employee drives a Honda Accord, 9 years old, with a US EPA "environmentally friendly" rating of 6/10. Average distance travelled, 12 miles; induced distance 6 miles (50% of initial travel saving).	Teleworkers reduced their commute to work by 55,000 miles in a year.	The average employee mean estimated reduction in weekly commuting travel was 174 km, the average mean estimated additional travel (rebound effect) was 47 km (27% of initial travel saving).	On average, the total number of trips by teleworkers on teleworking days by all modes of transport fell by 53% compared with "normal" work days. There was an overall decrease in both car and public transport travel by teleworkers and their household members, but car travel by household members other than the teleworkers themselves appears to have increased slightly. On average, the number of public transport trips by teleworkers fell by 93% and the number of car trips fell by 25%. The number of car trips on teleworking days by those who normally travelled to work by car fell by 37%. There were very substantial reductions in average total daily travel distances (79%), duration's (75%), and average



Source	Assessing the potential of telecommuting as an energy saving technology in Japan	2. Energy-related emissions from Telework	4. Kaiser Permanente Saves Office and Parking Space Through Telecommuting — and Gains Other Advantages	6. Is Teleworking sustainable? – an analysis of its economic, environmental and social impacts,	7. Teleworking a flexible working opportunity
					trip lengths (55%), for teleworkers on teleworking days, whilst there was no significant change in travel distances and duration's for household members. Travel-related costs were substantially reduced on teleworking days.
Energy	Applied average national energy usage figures for commercial and residential buildings. Difference between using power consumption for IT equipment at home or at the office is not considered significant compared to climate control and lighting and therefore assumed zero. Climate control occurs 12 hour/day, 365 days a year, yielding an estimate of 300W per room. Home office lighting uses 200W of power.	Assume copiers, printers and fax machines in company office are shared among a number of employees; therefore, energy is not saved due to a teleworker. Work-related usage of electronic equipment at home is based on usage in the office and is on most of the day. Induced energy usage of home electronics (eg TV, oven) is assumed to increase the more an employee teleworks. Heating and cooling, natural gas air furnace and central air conditioning are the preferred choices for both the company and the home office. Home heating and cooling increases as teleworker day's increase (1 day, 10% increase, 3		Teleworking which does not involve substantial reductions in workspace requirements usually has a limited impact on office energy consumption. Using home occupancy as an indicator of energy usage - 53% in Italy, 41% in Germany and 37% in BT - reported that their home occupancy went up by 21 hours a week or more. 94% of Danish and 54% of BAA respondents - both of whom were supplementary teleworkers - were at home for an additional 10 hours or less.	



Source	Assessing the potential of telecommuting as an energy saving technology in Japan	2. Energy-related emissions from Telework	4. Kaiser Permanente Saves Office and Parking Space Through Telecommuting — and Gains Other Advantages	6. Is Teleworking sustainable? – an analysis of its economic, environmental and social impacts,	7. Teleworking a flexible working opportunity
		days, 30% increase and 5 days, 50% increase). Incandescent bulbs are used in the home (60W in the office, 110W in the family room and 95W in the kitchen). Home lighting increases as telework day's increase (1 day, 5 hours, 3 days, 11 hours, 5 days 18 hours). Induced lighting increases as telework day's increase (1 day, 1 hour, 3 days, 6 hours, 5 days 10 hours). Lighting and heating and cooling related energy use in the company office not included when another employee occupies that office space.			
		Energy usage (lighting and heating and cooling) within the company office is based on floor space.			
Office Environment	Two-thirds of an office building is not actual office space but halls and meeting rooms. Telecommuting 4 days a week reduces office space by	45% of teleworkers have a separate home office while 55% share a family space.	Shared a desk at the company office with one other and a number of hot spots were made available to cater for overlap.		



Source	Assessing the potential of telecommuting as an energy saving technology in Japan	2. Energy-related emissions from Telework	4. Kaiser Permanente Saves Office and Parking Space Through Telecommuting — and Gains Other Advantages	6. Is Teleworking sustainable? – an analysis of its economic, environmental and social impacts,	7. Teleworking a flexible working opportunity
	25%, 2 days a week does not reduce office space. Home offices cover one third of the average residence.				
Other	Viable workforces were mobile sales and specialists/technical work force or clerical workers.	Telework days accounted for are those spent working at home less the hours the employee would anyway spend working at home on a non telework day. Each employee is provided with a desktop computer and phone.	The teleworkers worked at home 2 to 4 days a week. All computer and telecommunications equipment was supplied, which made maintenance and use of software applications easier. Telephone line installation, monthly fees and equipment maintenance was paid.	Substantial duplication of equipment (desks, computers, peripherals etc) was occurring in 16 out of 30 cases. The organisations without major duplication were generally those which had introduced hotdesking arrangements. Paper consumption: 2-29% of survey respondents felt that teleworking created more printing of documents, and 4-31% a decrease. The latter appears to be linked to extensive use of the Intranet.	
Key Outcomes	Teleworkers from the mobile sales and specialists/technical work force in Japan reduce national energy consumption by 1% if telecommuting 4 days a week or 0.4% for telecommuting 2 days. Clerical workforce teleworkers would reduce national energy consumption by 1.1%.	Teleworking may reduce CO ₂ , CO, SO ₂ , PM ₁₀ and NOx emissions but not CH ₄ , and N ² O emissions under certain conditions. Transportation related impacts may be reduced, however home related impacts may offset these reductions. Office related impacts may not be reduced		Teleworking does reduce transport- related environmental impacts, but by significantly less than initial commuting reductions suggest because of the rebound effect. Traditional forms of teleworking which duplicate resources tend to have negative impacts on energy, equipment, and materials use.	



Source	Assessing the potential of telecommuting as an energy saving technology in Japan	2. Energy-related emissions from Telework	4. Kaiser Permanente Saves Office and Parking Space Through Telecommuting — and Gains Other Advantages	6. Is Teleworking sustainable? – an analysis of its economic, environmental and social impacts,	7. Teleworking a flexible working opportunity
	The results indicate that telecommuting should be considered as a serious candidate for reduction of energy-related environmental impacts. However, there is a level of uncertainty present and adoption, especially for clerical workers is hampered by the limitation on modes of communication. Transport savings is the dominant factor and energy use in buildings (commercial and residential) is significant. One needs to ensure that consumption in office buildings is reduced sufficiently to at least balance out increases in residential consumption.	unless the office is shared with other employees during teleworking days. Success is dependant on commuting patterns, induce energy usage, and office and house characteristics and equipment use.		without creating significant offsetting reductions in office building-related energy consumption. Working at home can considerably increase heating, lighting, and other energy-consuming activities.	



Desk Top Review of Literature

Other

From the remaining material the following was noted:

- The biggest saving achieved through teleworking is the reduced need for office space. 10 million teleworkers could result in savings of greater than 11 million tones of CO₂, while 30 million could result in savings of greater than 34 million tones of CO₂. (3)
- 15,000 Bell Canada employees telecommute, saving 6,000 tonnes of CO₂ a year. (5)
- AT&T has reduced real estate costs by 30 million and gained \$150 million in extra hours of productivity and has lowered training and staff costs as teleworkers are less likely to switch jobs than in-office staff. (5)

Conclusion

From the information reviewed a conclusion cannot be made regarding whether or not the benefits associated with teleworking outweigh the costs. However, it does provide important information that may be used or adapted to develop appropriate assumptions for the Telstra model. It also highlights that the key variables to be considered include travel, energy and equipment usage and office and home characteristics and that appropriate attention needs to be given to the rebound or induced effects associated with teleworking



TELEWORKING LIFE CYCLE ANALYSIS

Appendix E

Peer Review Report and Response



PEER REVIEW OF TELEWORKING LIFE CYCLE ANALYSIS

SVEN LUNDIE, GREG PETERS

JULY 2007

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DOCUMENT STATUS RECORD

Project Title: Peer Review of Teleworking Life Cycle Analysis

Client: URS Melbourne

Document Title Peer Review of Teleworking Life Cycle Analysis

Document File Name: 070727 peer review URS-TLS LCA

Issue	Date of Issue	Description	Signatures		
No			Authors	Checked	Approved
1	24 July 2007	First draft	SL	GP	GP
2	25 July 2007	Draft	SL, GP	SL	SL
3	27 July 2007	Final	SL, GP	GP	GP

Notes:

Issue 2 Draft report for internal review

Issue 3 Document issued to client

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Executive Summary

Telstra contracted URS Australia to deliver a life cycle assessment (LCA). URS Australia contracted the Centre for Water and Waste Technology at UNSW to perform a peer review of the LCA. This document describes the peer review.

The purpose of the LCA is to compare the environmental impacts of teleworking versus conventional commuting to work. The level of detail of the analysis of the alternative systems is appropriate to the purpose of the study. The report follows the recommended structure of ISO series of standards and the definition of the function unit is clear in the context of Telstra's operations in Australia. The results of the study are presented for all potential teleworkers as well as on an individual basis. The language and structure of the LCA report are clearly constructed.

Since this study is a comparative LCA, it appropriately does not cover the full life cycle impacts of the alternative systems, but only the processes where the two systems differ. This is sometimes called a "differential" or "consequential" approach. The report clearly describes the decision to use this approach and the relevant assumptions made as part of the LCA study in relation to transportation, office equipment and environment are mostly described in detail.

For this study, four impact categories have been selected: global warming potential, abiotic depletion potential, human toxicity potential and photochemical oxidation potential. These impact categories are largely driven by energy consumption. When compared with conventional commuting to work, the abiotic depletion potential and global warming potential results reveal a small difference between the options: teleworking is ~5% lower. There is a larger reduction in photochemical oxidation potential (~40%). These three impact categories are driven by energy consumption. On the other hand, a larger burden is associated with teleworking in terms of human toxicity potential (~17%). These results appear to be robust in the face of variation of all the key variables, with the exception of the distance travelled to work. In this case, a 25% reduction in distance results in a reversal of the global warming impacts.

In this peer review we have identified some technical matters for consideration and we believe checking them will assist the client in its desire to ensure the robustness of the analysis. We also make some suggestions which will enhance the clarity of the LCA report and the ease with which a new reader will be able to understand the findings. We find that the overall interpretation of the results in the report is supported by the underlying analysis. Summary reportage of this work should point out the significance of the distance travelled to work by commuters in determining the outcome of the scenario comparison.

1 Approach

URS delivered a copy of its full report "Teleworking Life Cycle Analysis" (Teleworking Lifecycle Analysis Complete 290607.doc) and a copy of the complete underlying LCA model constructed using the SimaPro life cycle assessment software (Simaprobackup100707.SPBackup). We examined the model using SimaPro 7.

We considered:

- the appropriateness of the scope to the goal of the study
- the consistency of the system boundaries with the scope
- the contents of the life cycle inventory
- the consistency of the LCI model the with the report
- the use of LCIA characterisation factors
- the consistency of the interpretation with the characterised results

We discussed our understanding of the work and developed consensus findings as described in this report.

2 Main comments

While we would like to make some comments which we believe will add to the quality of this work, we believe this work has been competently performed. It is the nature of a peer review to focus primarily on potential points of difference rather than agreement, in order to best test the assumptions used by the client. Our principal technical comments appear below.

- Selection of impact categories: The impact categories global warming potential, abiotic depletion, human toxicity and photochemical oxidation have been selected for this study. These categories seem appropriate to us on the basis that the key processes of concern to the environment relate to energy consumption in various forms.
- Rebound effects: Section 2.4 says that 'rebound effects are incorporated into the model. Inclusion of rebound effects makes sense as there are synergies between commuting and other activities, such as dropping of and picking up children from school. We found this aspect of the work relatively complex to analyse on account the assumptions being discussed in various locations in the report (2.4, 2.5, 3.2.2, 3.4.2. and 3.5). The report would benefit from a consolidated section on rebound effects and how the data supporting the rebound assumptions was modelled and interpreted.
- In particular, Section 3.4.2 describes increased use of dishwashers, washing machines, clothes dryers, TVs and stereos when teleworking. The detailed basis for the assumptions regarding additional operating time for these appliances and their attribution to this LCA is not fully explained. Kitou and Horvath (2003) show that rebound effects can be significant so these assumptions may have a large impact on the overall results and it would be valuable for the report's results section to separately identify the influence of rebound effects. The scale of the rebound

effects appears to be directly interpolated from Kitou and Horvath (2003), but this needs to be explicitly stated since these authors did not consider 2 and 4 day teleworking. Furthermore, it appears that the data for the additional dishwasher usage is not supported by Kitou and Horvath (2003) – the 2 day teleworker would do 2 loads and the 4 day 3.5 if an approach consistent with the other interpolations was followed. The LCA report refers to the use of a clothes dryer but Table 3.6 does not show any equivalent data. Additionally, Kitou and Horvath (2003) assume there are rebound effects for the gas stove ("range") and oven. These points may not necessarily make a significant difference to the LCA outcomes, but they would tend to reduce the relative appeal of teleworking. If the authors of the LCA report have decided the Kitou and Horvath (2003) data are not appropriate for Australian dishwasher, stove and oven use they should make this clear.

• Human toxicity: Section 2.5 says that 'CML 2001 toxicity factors have been derived from the European models with necessary adaptations to Australian spatial and temporal context and human and ecosystem health standards'. It would be helpful if the full reference would be cited in the report, i.e. Huijbregts & Lundie (2002). A recent update of the Australian Human and Ecotoxicity factors have been published in the scientific literature (see Lundie et al, 2007). The quality of the report would be enhanced if the most relevant substances and processes contributing to human toxicity potential were be named and their relative contribution would be listed.

3 Specific comments

- Executive summary: the sentence 'As a consequence, it is not possible to consider LCA impacts associated with one of the scenarios (teleworking or non-teleworking) in isolation' is not ideal. We suggest: "As a consequence, it is not possible to read the results of this LCA as total values for either scenario. The results are relative."
- Chapter 1.1 Context: please describe the core findings of other comparative LCA studies on teleworking versus non-teleworking (eg.: Kitou and Horvarth, 2003) Are these studies consistent with the results of this LCA study?
- Section 2.2 Lifecycle mapping: please mention the literature that has been reviewed to understand the lifecycle of teleworking better. How have these sources been used for this LCA study?
- System boundaries: the system boundaries include transportation, office equipment and environment (in the home office and in the Telstra Office). The system boundaries are described in Section 1.4 and in Sections 3.2 3.4. It might be helpful for the reader if the system boundaries would also be illustrated graphically in the document.
- Differential approach (Section 3.3.2): The description of the differential approach on teleworking employees is difficult to understand, particularly Table 3.2 and its description. A large set of assumptions are condensed into the table. It would be helpful to the reader to expand the table and present the assumed data in tabular form, firstly as absolute values for the three cases, with explanatory footnotes regarding the assumptions behind the individual values. Sometimes fractional values relate to per-person access to a particular technology (eg.: mobile phone) and sometimes it is to do with fractional usage of the device for work purposes. Once

this is cleared up in this way, the remainder of the table (ie.: the current table) will be easy to interpret. Additionally, it is not clear to us whether the AC power adapter figures are correct, given that the desktop computer in the 0-days case would have its own inbuilt power adapter (transformer). Is this included in the desktop? Does the docking station include a power supply?

- Infrastructure / equipment of teleworking employees (Section 3.4.2): light bulbs are described in detail for the home office. It would be helpful if the authors of the report would explain on what basis this technical configuration was chosen and how sensible the overall results might be influenced if a different setting was chosen.
- Usage: '75% of the employees has air conditioning at home and 100% have heating'.
 Whether there is a literature basis for these data or they are based on the analysts' assumptions should be made clear.
- It is assumed that laptops and desktops do not have different energy consumptions. This is not correct according to the European Green Label see EU (2005a) and EU (2005b) more details. A sensitivity analysis of the energy consumption of laptops versus desktops might be helpful in order to further increase the robustness of the results.
- In the study it is assumed that the office space 'will be heated and cooled regardless of whether the employee is present or not'. This is correct, however, the effort of heating and cooling of a building may depend on the number of people being in the building. If this is the case, the electricity consumption of teleworkers and non-teleworkers in Table 3.7 is probably not correct. However, it is unclear to us what the impact of this assumption is on the overall result.
- Section 4.3 Contribution analysis: A table with both the total and the relative contribution of processes to each impact category would be helpful to get a quick overview. Reasons for differences between the options could be elaborated more easily in the context of such a table; influencing factors such as assumptions and uncertainties could be mentioned here as well.
- Ideally, sensitivity analysis should be conducted using standard relative changes to input variables. This allows the analyst to determine whether a particular relative change to an input variable has a greater effect on the bottom line. In this study the scales are variable, for example, the relative variation of the percentage of employees travelling by car is +/-20% in four steps, while the variation in kilometres travelled is -41% to +47% in five. By calculating the relative variation of the input parameters for this peer review, we have been able to avoid the potential for this variability in scale to affect our analysis, and we find it does not impact on the conclusions of the report's authors. If feasible, it would nevertheless make it much easier for the reader to quickly interpret the relative significance of the different variables considered in the sensitivity analysis, if there was a standardisation of approach to sensitivity analysis across input variables.
- The citation of Kitou and "Horvard" in the references is incorrect. Using the LCA report authors' format, it should be: E. Kitou and A. Horvath. Energy-Related Emissions from Telework. *Environmental Science and Technology*, 37(16)3467-3475, 2003.

4 References

Huijbregts M. and Lundie S. (2002) Australian life cycle impact assessment of toxic emissions. Revised version. Department of Environmental Studies, Nijmegen University and Centre for Water and Waste Technology, UNSW.

Kitou E. and Horvath A. (2003) Energy-Related Emissions from Telework. *Environmental Science and Technology*, 37(16)3467-3475

Lundie S., Huijbregts M.A.J., Rowley H.V., Mohr N.J., Feitz A.J. (2007) Australian characterisation factors and normalisation figures for human toxicity and ecotoxicity. *Journal of Cleaner Production* 15, 819-832

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Appendix E

Peer Review Report and Response

Table E-1 **Peer review comments**

Comment	Response
Main Comments	
Selection of impact categories: The impact categories global warming potential, abiotic depletion, human toxicity and photochemical oxidation have been selected for this study. These categories seem appropriate to us on the basis that the key processes of concern to the environment relate to energy consumption in various forms.	No Response Required
Rebound effects: Section 2.4 says that 'rebound effects are incorporated into the model. Inclusion of rebound effects makes sense as there are synergies between commuting and other activities, such as dropping of and picking up children from school. We found this aspect of the work relatively complex to analyse on account of the assumptions being discussed in various locations in the report (2.4, 2.5, 3.2.2, 3.4.2. and 3.5).' The report would benefit from a consolidated section on rebound effects and how the data supporting the rebound assumptions was modeled and interpreted.	Section 3.5 is the main consolidated section dealing with rebound effects.
In particular, Section 3.4.2 describes increased use of dishwashers, washing machines, clothes dryers, TVs and stereos when teleworking. The detailed basis for the assumptions regarding additional operating time for these appliances and their attribution to this LCA is not fully explained. Kitou and Horvath (2003) show that rebound effects can be significant so these assumptions may have a large impact on the overall results. It would be valuable for the report's results section to separately identify the influence of rebound effects. The scale of the rebound effects appears to be directly interpolated from Kitou and Horvath (2003), but this needs to be explicitly stated since these authors did not consider 2 and 4 day teleworking. Furthermore, it appears that the data for the additional dishwasher usage is not supported by Kitou and Horvath (2003) – the 2 day teleworker would do 2 loads and the 4 day 3.5 if an approach consistent with the other interpolations was followed. The LCA report refers to the use of a clothes dryer but Table 3.6 does not show any equivalent data. Additionally, Kitou and Horvath (2003) assume there are rebound effects for the gas stove ("range") and oven. These points may not necessarily make a significant difference to the LCA outcomes, but they would tend to reduce the relative appeal of teleworking. If the authors of the LCA report have decided the Kitou and Horvath (2003) data are not appropriate for Australian dishwasher, stove and oven use they should make this clear.	Dishwasher usage is less than that used by Kitou and Hovarth (2003) because the authors considered that 1 and 2 loads per week was more realistic than 2 and 3.5 suggested by Kitou and Hovarth. It should be noted that the figures used by Kitou and Hovarth for the appliance rebound effect were estimated. It must also be noted that, in Australia, cooking appliances are very often used at work when people bring their lunch (micro-wave, toasters). Based on this, the use of cooking appliances at home has not been considered as a rebound effect. To a lesser extent, the same is true for dishwashers.
Human toxicity: Section 2.5 says that 'CML 2001 toxicity factors have been derived from the European models with necessary adaptations to Australian spatial and temporal context and human and ecosystem health standards'. It would be helpful if the full reference could be cited in the report, i.e. Huijbregts & Lundie (2002). A recent update of the Australian Human and Ecotoxicity factors has been published in the scientific literature (see Lundie et al, 2007). The quality of the report would be enhanced if the most relevant substances and processes contributing to human toxicity potential were named and their relative contribution listed.	Full reference to Huijbregts & Lundie (2002) now in the report.



Appendix E

Peer Review Report and Response

Comment	Response
Specific Comments	
Executive summary: the sentence 'As a consequence, it is not possible to consider LCA impacts associated with one of the scenarios (teleworking or non-teleworking) in isolation' is not ideal. We suggest: "As a consequence, it is not possible to read the results of this LCA as total values for either scenario. The results are relative."	Suggested change made.
Chapter 1.1 Context: please describe the core findings of other comparative LCA studies on teleworking versus non-teleworking (eg.: Kitou and Horvarth, 2003). Are these studies consistent with the results of this LCA study? Section 2.2 Lifecycle mapping: please mention the literature that has been reviewed to understand the lifecycle of teleworking better. How have these sources been used for this LCA study?	The results of the desktop review have been added in Appendix D.
System boundaries: the system boundaries include transportation, office equipment and environment (in the home office and in the Telstra office). The system boundaries are described in Section 1.4 and in Sections 3.2 – 3.4. It might be helpful for the reader if the system boundaries were illustrated graphically in the document.	This recommendation, however useful, has not been implemented, as the written description has been deemed sufficient.
Differential approach (Section 3.3.2): The description of the differential approach on teleworking employees is difficult to understand, particularly Table 3.2 and its description. A large set of assumptions are condensed into the table. It would be helpful to the reader to expand the table and present the assumed data in tabular form, firstly as absolute values for the three cases, with explanatory footnotes regarding the assumptions behind the individual values. Sometimes fractional values relate to per-person access to a particular technology (eg.: mobile phone) and sometimes it is to do with fractional usage of the device for work purposes. Once this is cleared up in this way, the remainder of the table (ie.: the current table) will be easy to interpret. Additionally, it is not clear to us whether the AC power adapter figures are correct, given that the desktop computer in the 0-days case would have its own inbuilt power adapter (transformer). Is this included in the desktop? Does the docking station include a power supply?	Table has been changed to help clarify information.
Infrastructure / equipment of teleworking employees (Section 3.4.2): light bulbs are described in detail for the home office. It would be helpful if the authors of the report would explain on what basis this technical configuration was chosen and how sensible the overall results might be influenced if a different setting was chosen.	Based on an estimate by the authors. The impact is negligible though.
Usage: '75% of the employees have air conditioning at home and 100% have heating'. Whether there is a literature basis for these data or they are based on the analysts' assumptions should be made clear.	Point of reference clarified in the report.
It is assumed that laptops and desktops do not have different energy consumptions. This is not correct according to the European Green Label - see EU (2005a) and EU (2005b) more details. A sensitivity analysis of the energy consumption of laptops versus desktops might be helpful in order to further increase the robustness of the results.	This impact has not been included in the model, as it is a conservative assumption (teleworking would appear even more favorable if environmental impacts of laptops were indeed smaller than those of desktops).



Appendix E

Peer Review Report and Response

Comment	Response
In the study it is assumed that the office space 'will be heated and cooled regardless of whether the employee is present or not'. This is correct, however, the effort of heating and cooling of a building may depend on the number of people being in the building. If this is the case, the electricity consumption of teleworkers and non-teleworkers in Table 3.7 is probably not correct. However, it is unclear to us what the impact of this assumption is on the overall result.	This assumption has been reconsidered and it has been found that it was consistent and representative of the buildings benchmarked by National Australian Built Environment Rating Scheme (NABERS) and has therefore been kept as it was. Moreover, anecdotal evidence suggests that a lower occupancy rate may reduce the need for cooling in summer but increase the need for heating in winter; it would therefore be difficult to assess whether overall the impacts is negative or positive.
Section 4.3 Contribution analysis: A table with both the total and the relative contribution of processes to each impact category would be helpful to get a quick overview. Reasons for differences between the options could be elaborated more easily in the context of such a table; influencing factors such as assumptions and uncertainties could be mentioned here as well.	A summary table has been added.
Ideally, sensitivity analysis should be conducted using standard relative changes to input variables. This allows the analyst to determine whether a particular relative change to an input variable has a greater effect on the bottom line. In this study the scales are variable, for example, the relative variation of the percentage of employees travelling by car is +/-20% in four steps, while the variation in kilometres travelled is -41% to +47% in five steps. By calculating the relative variation of the input parameters for this peer review, we have been able to avoid the potential for this variability in scale to affect our analysis, and we find it does not impact on the conclusions of the report's authors. If feasible, it would nevertheless make it much easier for the reader to quickly interpret the relative significance of the different variables considered in the sensitivity analysis, if there was a standardisation of approach to sensitivity analysis across input variables.	The approach has been standardised where deemed appropriate. URS is of the view that sensitivity can be expressed in absolute terms rather than relative terms when it is more "telling" (such as kilometers for example) for the reader.
The citation of Kitou and "Horvard" in the references is incorrect. Using the LCA report authors' format, it should be: E. Kitou and A. Horvath. Energy-Related Emissions from Telework. Environmental Science and Technology, 37(16)3467-3475, 2003.	Reference changed.



TELEWORKING LIFE CYCLE ANALYSIS

Appendix F

Model Output Data



Process Contribution
Date: 27/06/2007 Time: 12:06:12

SimaPro 7. Process contribution Project Teleworker V2 CML 2001

Title: Analyzing 1 p assembly 'benefits of teleworking'

Method: CML 2 baseline 2001- Australian Toxicity Factors V1.00 / World, 1995
Indicator: Amount
Relative mr Non

No

idus in						
Process	DQI	Unit	Total	Non teleworker	2 D Teleworker	4D Teleworker
1 Drying, natural gas/NO U	Dai	m3	1.388450639	2.718656906		-0.592751293
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2 Natural gas, at long-distance pipeline/RER U		m3	0.683834166	2.460640242		-0.815930716
3 Natural gas, at production onshore/RU U		m3	0.681534673	1.430491297		-0.339974981
4 Natural gas, production NL, at long-distance pipeline/RER U		m3	0.640281951	1.11483203		-0.213402779
5 Natural gas, production RU, at long-distance pipeline/RER U		m3	0.58180944	1.22118289	-0.349141653	-0.290231797
6 Natural gas, at production onshore/DZ U		m3	0.486527087	0.86231081	-0.215909126	-0.159874596
7 Natural gas, at production onshore/NL U		m3	0.458574816	0.798452004	-0.187036121	-0.152841068
8 Natural gas, production DZ, at long-distance pipeline/RER U		m3	0.45173523	0.770188649	-0.175451917	-0.143001502
9 Natural gas, at production offshore/NO U		m3	0.370133985	0.715205481		-0.156024581
				0.676026187		
10 Natural gas, production NO, at long-distance pipeline/RER U		m3	0.35023281			-0.147366128
11 Petrol, unleaded, 2001-02, - energy allocation/AU U		m3	0.289511936	0.611191864		-0.112587975
12 Sweetening, natural gas/DE U		m3	0.265524084	0.474440605		-0.094089924
13 Natural gas, at production onshore/DE U		m3	0.258434299	0.376684691	-0.066060537	-0.052189855
14 Natural gas, production DE, at long-distance pipeline/RER U		m3	0.243237005	0.353002783	-0.061352932	-0.048412846
15 Natural gas, at production offshore/NL U		m3	0.191792318	0.333168914	-0.077810424	-0.063566172
16 Natural gas, production DZ, at evaporation plant/RER U		m3	0.189728797	0.323479233		-0.060060631
17 Natural gas, liquefied, at liquefaction plant/DZ U		m3	0.189728797	0.323479233		-0.060060631
18 Natural gas, liquefied, at freight ship/DZ U		m3	0.189728797	0.323479233		-0.060060631
19 Crude oil, 2001-02 AU/GLO U		m3	0.169574364	0.364776063		-0.069385669
20 Crude oil, 2001-02 AU, - energy allocation/AU U		m3	0.114451128	0.246196246	-0.084915553	-0.046829565
21 LPG, Australian average, 2001-02/ AU U		m3	0.029188472	0.061612463	-0.021075594	-0.011348397
22 Natural gas, at production offshore/GB U		m3	0.0276785	0.098801365	-0.038468961	-0.032653904
23 Natural gas, production GB, at long-distance pipeline/RER U		m3	0.027669699	0.098783938	-0.038464241	-0.032649998
24 Sweet gas, burned in gas turbine, production/m3/NO U		m3	0.023968536	0.041823841		-0.007764838
25 LPG from natural gas, 2001-02/AU U		m3	0.020298135	0.042846303		-0.007891859
26 Diesel, automotive, 2001-02, - energy allocation/AU U		m3	0.009255572	0.029486993		-0.008578872
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27 Excavation, skid-steer loader/RER U		m3	0.009063285	0.012758265		-0.001507238
28 LPG from refineries, 2001-02, - energy allocation/AU U		m3	0.008890337	0.01876616		-0.003456538
29 Treatment, sewage, unpolluted, to wastewater treatment, class 3/CH U		m3	0.006624139	0.01018515	-0.001952804	-0.001608207
30 Natural gas, vented/GLO U		m3	0.006477847	0.007897328	-0.000947326	-0.000472155
31 Natural gas, at long-distance pipeline/CH U		m3	0.00621386	0.007039476	-0 000575849	-0.000249768
32 Softwood, allocation correction, 1/RER U		m3	0.005931636	-0.0006207		0.00045409
33 Natural gas, sweet, burned in production flare/m3/GLO U						
• • •		m3	0.004942283	0.008690641		-0.001625502
34 Softwood, allocation correction, 3/RER U		m3	0.004486888	-0.000453472		0.000341727
35 Fuel oil, 2001-02, - energy allocation/AU U		m3	0.002850636	0.006516714	-0.002176109	-0.001489969
36 Building, multi-storey/RER/I U		m3	0.002461262	0.002728721	-0.000159234	-0.000108224
37 Sour gas, burned in gas turbine, production/m3/NO U		m3	0.001363069	0.002860983	-0.000817963	-0.00067995
38 Crude Oil AU (00-01)/AU U EnAll		m3	0.001230881	0.001293148	-2 98779F-05	-3.23892E-05
39 Wood chips, mixed, from industry, u=40%, at plant/RER U		m3	0.001011359	0.001121684		-4.11946E-05
40 Softwood, allocation correction, 2/RER U		m3	0.001006101	0.000276232		2.79163E-05
41 Excavation, hydraulic digger/RER U		m3	0.000735214	0.002666647		-0.000848884
42 Lubricants (00-01)/AU U EnAll		m3	0.000602789	0.000629496	-1.28128E-05	-1.38941E-05
43 Treatment, sewage, to wastewater treatment, class 4/CH U		m3	0.000534131	0.000880917	-0.000175937	-0.000170849
44 Sawn timber, softwood, raw, kiln dried, u=10%, at plant/RER U		m3	0.000470847	0.000522233	-3.07341E-05	-2.06524E-05
45 Concrete, sole plate and foundation, at plant/CH U		m3	0.00044648	0.00048213		-8.17008E-06
46 Sawn timber, softwood, planed, kiln dried, at plant/RER U		m3	0.000413626	0.000458451		-1.8112E-05
			0.000413020			
47 Natural gas, sour, burned in production flare/m3/GLO U		m3		0.000715246		-0.000169987
48 Wood chips, hardwood, from industry, u=40%, at plant/RER U		m3	0.000283736	0.000314686		
49 Treatment, sewage, from residence, to wastewater treatment, class 2/CH U		m3	0.00022993	0.000231293		-3.48734E-07
50 Treatment, sewage, to wastewater treatment, class 3/CH U		m3	0.000214783	0.000237432	-1.31702E-05	-9.47938E-06
51 Concrete, normal, at plant/CH U		m3	0.000181156	0.000226847	-3.36267E-05	-1.20652E-05
52 Industrial residue wood, mix, hardwood, u=40%, at plant/RER U		m3	0.000111491	0.000123222	-7.36935E-06	-4.36189E-06
53 Industrial residue wood, hardwood, including bark, u=70%, at plant/RER U		m3	0.000105582	0.000116691		-4.13071E-06
54 Tailings, uranium milling/GLO U		m3	0.000100206	0.000110001		-3.67251E-06
3	411					
55 Treatment, rainwater mineral oil storage, to wastewater treatment, class 2/C	•П	m3	9.58071E-05	0.000119683		-6.71911E-06
56 Hardwood, allocation correction, 2/RER U		m3	9.57091E-05	0.00011876		-1.00845E-05
57 Hardwood, standing, under bark, in forest/RER U		m3	9.09195E-05	0.000152122	-3.34098E-05	-2.77931E-05
58 Hardwood, stand establishment / tending / site development, under bark/RE	R	m3	9.09195E-05	0.000152122	-3.34098E-05	-2.77931E-05
59 Concrete, exacting, at plant/CH U		m3	7.03133E-05	8.19746E-05	-7.88174E-06	-3.77956E-06
60 Round wood, hardwood, under bark, u=70%, at forest road/RER U		m3	6.98246E-05	9.29638E-05		-9.83605E-06
61 Slurry spreading, by vacuum tanker/CH U		m3	5.25859E-05	6.59526E-05		-1.76047E-06
, ,		m3				-6.97523E-07
62 Sawn timber, softwood, raw, kiln dried, u=20%, at plant/RER U			4.70793E-05	4.99269E-05		
63 Sawn timber, hardwood, raw, plant-debarked, u=70%, at plant/RER U		m3	3.93427E-05	5.37205E-05		-6.1462E-06
64 Sawn timber, hardwood, raw, air dried, u=20%, at plant/RER U		m3	3.44288E-05	4.70323E-05		-5.38819E-06
65 Particle board, outdoor use, at plant/RER U		m3	1.9634E-05	2.04114E-05	-4.66363E-07	-3.11023E-07
66 Concrete, exacting, with de-icing salt contact, at plant/CH U		m3	1.56577E-05	2.63898E-05	-7.96628E-06	-2.76587E-06
67 Particle board, indoor use, at plant/RER U		m3	1.29748E-05	1.37724E-05	-6.05009E-07	-1.92573E-07
68 Treatment, concrete production effluent, to wastewater treatment, class 3/CI	нι	m3	1.06212E-05	1.21389E-05		-3.91499E-07
69 Softwood, Scandinavian, standing, under bark, in forest/NORDEL U		m3	8.5063E-06	1.007E-05		-6.76342E-07
_	1/N1					
70 Industrial wood, Scandinavian softwood, under bark, u=140%, at forest road	1/ IN	m3	8.47576E-06	1.00367E-05		-6.75519E-07
71 Treatment, sewage, to wastewater treatment, class 1/CH U		m3	7.5286E-06	1.3277E-05		-1.40519E-06
72 Preservative treatment, logs, pressure vessel/RER U		m3	4.72735E-06	5.07308E-06	-2.43881E-07	-1.0185E-07
73 Treatment, particle board production effluent, to wastewater treatment, class	s 3	m3	4.19755E-06	4.37397E-06	-1.10389E-07	-6.6027E-08
74 Treatment, sewage, to wastewater treatment, class 2/CH U		m3	3.60945E-06	4.14432E-06	-3.56843E-07	-1.78023E-07
75 Other refinery products, including naptha, 2001-02, - energy allocation/AU U	J	m3	3.02923E-06	8.62669E-06	-4.476E-06	-1.12147E-06
76 Treatment, pig iron production effluent, to wastewater treatment, class 3/CH		m3	3.01407E-06	4.14707E-06		-4.97221E-07
77 Industrial residue wood, plywood prod., outdoor use, hardwood, u=20%, at p		m3	1.90649E-06	2.1071E-06		-7.45883E-08
77 Industrial residue wood, plywood prod., oddoor use, hardwood, u=20%, at plants and production of the production of th		m3	1.90649E-06	2.1071E-06 2.1071E-06		-7.45883E-08
79 Treatment, potato starch production effluent, to wastewater treatment, class		m3	1.8837E-06	2.10403E-06		-9.35065E-08
80 Treatment, plywood production effluent, to wastewater treatment, class 3/CF	1 L	m3	1.83852E-06	2.03325E-06	-1.23538E-07	-7.1198E-08
81 Glued laminated timber, outdoor use, at plant/RER U		m3	1.36082E-06	1.55535E-06	-1.35018E-07	-5.95065E-08
82 Industrial residue wood, from planing, hardwood, kiln dried, u=10%, at plant/	/RI	m3	1.07366E-06	1.18663E-06		-4.2005E-08
83 Industrial residue wood, from planing, hard, air/kiln dried, u=10%, at plant/RI		m3	1.07366E-06	1.18663E-06		-4.2005E-08
84 Treatment, lorry production effluent, to wastewater treatment, class 1/CH U		m3	1.03222E-06	1.82037E-06		-1.92661E-07
85 Plywood, outdoor use, at plant/RER U		m3	9.99186E-07	1.10502E-06		-3.86942E-08
86 Radioactive waste, in final repository for nuclear waste LLW/CH U		m3	9.14662E-07	1.00807E-06		-3.35229E-08
87 Low active radioactive waste/CH U		m3	9.01963E-07	1.03587E-06		-4.49984E-08
88 Industrial wood, Scandinavian hardwood, under bark, u=80%, at forest road	/NI	m3	7.65321E-07	8.4077E-07	-5.18239E-08	-2.36254E-08
89 Hardwood, Scandinavian, standing, under bark, in forest/NORDEL U		m3	7.65321E-07	8.4077E-07		-2.36254E-08
90 Chips, Scandinavian softwood (plant-debarked), u=70%, at plant/NORDEL l	U	m3	4.00003E-07	4.36017E-07		-1.07854E-08
91 Treatment, glass production effluent, to wastewater treatment, class 2/CH U		m3	2.66103E-07	3.0157E-07		-1.41006E-08
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92 Radioactive waste, in interim storage, for final repository LLW/CH U	21.1	m3	2.31374E-07	2.55013E-07		-8.48095E-09
93 Radioactive waste, in final repository for nuclear waste SF, HLW, and ILW/C		m3	2.3021E-07	2.53645E-07		-8.42785E-09
94 Radioactive waste, in interim storage, for final repository SF, HLW, and ILW,	/C	m3	2.06322E-07	2.27268E-07		-7.54604E-09
95 Sawn timber, softwood, planed, air dried, at plant/RER U		m3	8.23891E-08	9.73548E-08	-1.37611E-08	-1.20464E-09
96 Sawn timber, hardwood, raw, kiln dried, u=10%, at plant/RER U		m3	8.23141E-08	9.09753E-08		-3.2204E-09
97 Sawn timber, hardwood, raw, air / kiln dried, u=10%, at plant/RER U		m3	8.23141E-08	9.09753E-08		-3.2204E-09
98 Poor concrete, at plant/CH U						
·	DГ	m3	7.20026E-08	7.32623E-08		
99 Round wood, Scandinavian softwood, under bark, u=70% at forest road/NOI		m3	3.05354E-08	3.32847E-08		-8.23338E-10
100 Treatment, maize starch production effluent, to wastewater treatment, class	2/1	m3	3.78463E-09	4.39109E-09		-2.52993E-10
101 Radioactive waste, in interim storage conditioning/CH U		m3	1.6857E-09	1.86118E-09	-1.13279E-10	-6.21932E-11
102 Treatment, condensate from light oil boiler, to wastewater treatment, class 2	2/C	m3	9.42541E-12	1.04561E-11		-3.84537E-13
103 Plywood, indoor use, at plant/RER U		m3	8.65531E-12	9.81192E-12		-3.4901E-13
104 RA waste interim storage conditioning ZWILAG U		m3	-8.09198E-15	-1.70486E-24		-3.03449E-15
g g						
105 Leakage natural gas HP CH U	-	m3	-3.65344E-14	-7.69724E-24		-1.37004E-14
106 Leakage natural gas LP CH U	-	m3	-1.119E-13	-2.35756E-23		-4.19625E-14
107 RA waste interim storage C U		m3	-3.78358E-13	-7.97144E-23		-1.41884E-13
108 Radioactive waste in final storage C U		m3	-3.78358E-13	-7.97144E-23	-2.36474E-13	-1.41884E-13

109 RA waste interim storage B U		m2	1 76714E 12	-3.7231E-22	-1.10446E-12 -6.62678E-13	
110 Radioactive waste in final storage B U		m3 m3	-1.76714E-12 -4.6314E-12	-9.75766E-22	-2.89463E-12 -1.73678E-12	
111 Metal construction building U	-	m3	-2.20327E-11	-4.64195E-21	-1.37704E-11 -8.26225E-12	
112 Low radioactive waste U 113 Massive building U		m3 m3	-4.81943E-11 -2.5726E-10	-1.01538E-20 -5.42008E-20	-3.01214E-11 -1.80729E-11 -1.60787E-10 -9.64724E-11	
114 Infra WWTP size 2 U		m3	-4.08733E-10	-8.6114E-20	-2.55458E-10 -1.53275E-10	
115 Infra sewage system size 2 U 116 Emission process water natural gas U		m3 m3	-4.08733E-10 -5.09263E-10	-8.6114E-20 -1.07294E-19	-2.55458E-10 -1.53275E-10 -3.18289E-10 -1.90974E-10	
117 Treatment, ceramic production effluent, to wastewater treatment, class 3/CH L	J	m3	-6.57393E-10	1.30958E-09	-1.56017E-09 -4.06802E-10	
118 Natural gas to CH from D U		m3	-1.25507E-09 -3.9744E-09	-2.64425E-19 -8.37347E-19	-7.84421E-10 -4.70653E-10 -2.484E-09 -1.4904E-09	
119 Natural gas to CH from NL U 120 Emission process water petroleum gas U	-	m3 m3	-4.88635E-09	-1.02948E-18	-3.05397E-09 -1.83238E-09	
121 Natural gas to CH U		m3	-1.0459E-08	-2.20354E-18	-6.53684E-09 -3.92211E-09	
122 Leakage raw natural gas N U 123 Lubricants, 2001-02, - energy allocation/AU U	-	m3 m3	-1.67577E-08 -1.7308E-08	-3.5306E-18 -4.93312E-18	-1.04736E-08 -6.28415E-09 -1.08175E-08 -6.49048E-09	
124 Leakage raw natural gas Alg. U	-	m3	-2.2454E-08	-4.73072E-18	-1.40337E-08 -8.42025E-09	
125 Leakage raw natural gas D U	-	m3	-3.43571E-08	-7.23853E-18	-2.14732E-08 -1.28839E-08	
126 Leakage production natural gas N U 127 Leakage raw natural gas NL U	-	m3 m3	-4.16989E-08 -7.14716E-08	-8.78534E-18 -1.5058E-17	-2.60618E-08 -1.56371E-08 -4.46698E-08 -2.68019E-08	
128 Leakage production natural gas D U	-	m3	-7.8077E-08	-1.64497E-17	-4.87981E-08 -2.92789E-08	
129 Aviation turbine fuel, 2001-02, - energy allocation/AU U 130 Output flare production sour gas U		m3 m3	-9.28E-08 -9.82009E-08	2.13805E-18 -2.06894E-17	-5.8E-08 -3.48E-08 -6.13755E-08 -3.68253E-08	
131 Leakage natural gas UCPTE U	-	m3	-1.59019E-07	-3.35029E-17	-9.93868E-08 -5.96321E-08	
132 Leakage production natural gas NL U 133 Leakage raw natural gas GUS U	-	m3 m3	-1.64305E-07 -1.98963E-07	-3.46165E-17 -4.19184E-17	-1.0269E-07 -6.16142E-08 -1.24352E-07 -7.46109E-08	
134 Leakage production natural gas Alg. U	-	m3	-2.85326E-07	-6.0114E-17	-1.78329E-07 -1.06997E-07	
135 Output gas turbine production sour gas U 136 Excavation skid steer loader U	-	m3 m3	-4.59444E-07 -4.69016E-07	-9.6798E-17 -9.88147E-17	-2.87153E-07 -1.72292E-07 -2.93135E-07 -1.75881E-07	
137 Excavation hydraulic digger U		m3	-6.39626E-07	-1.3476E-16	-3.99766E-07 -2.3986E-07	
138 Petroleum gas blow off U	-	m3	-6.87286E-07	-1.44801E-16	-4.29554E-07 -2.57732E-07	
139 Industrial residue wood, from planing, softwood, kiln dried, u=10%, at plant/RE 140 Industrial residue wood, from planing, softwood, air dried, u=20%, at plant/REI		m3 m3	-8.63109E-07 -8.63109E-07	3.74243E-06 3.74243E-06	-4.18979E-06 -4.15755E-07 -4.18979E-06 -4.15755E-07	
141 Leakage production natural gas GUS U	-	m3	-1.19101E-06	-2.50927E-16	-7.44379E-07 -4.46627E-07	
142 Output flare production sweet gas U143 Output gas turbine production sweet gas U	-	m3 m3	-1.68279E-06 -2.75375E-06	-3.54538E-16 -5.80173E-16	-1.05174E-06 -6.31045E-07 -1.72109E-06 -1.03266E-06	
144 Petroleum gas flaring U	-	m3	-9.53037E-06	-2.00791E-15	-5.95648E-06 -3.57389E-06	
145 Industrial wood, hardwood, under bark, u=80%, at forest road/RER U 146 Natural gas to UCPTE from Alg. U		m3 m3	-1.16499E-05 -1.20588E-05	5.209E-06 -2.54061E-15	-8.48113E-06 -8.37775E-06 -7.53675E-06 -4.52205E-06	
147 Natural gas to UCPTE from Alg. LNG U		m3	-2.09038E-05	-4.40413E-15	-1.30649E-05 -7.83894E-06	
148 LNG Tanker ETH U		m3	-2.09038E-05	-4.40413E-15	-1.30649E-05 -7.83894E-06	
149 Industrial wood, softwood, under bark, u=140%, at forest road/RER U 150 Natural gas to UCPTE from N U		m3 m3	-2.51983E-05 -2.70064E-05	1.89301E-05 -5.68985E-15	-2.22443E-05 -2.18841E-05 -1.6879E-05 -1.01274E-05	
151 Natural gas to CH from N U		m3	-2.70075E-05	-5.69007E-15	-1.68797E-05 -1.01278E-05	
152 Produced natural gas N U 153 Infra produced natural gas N U		m3 m3	-2.79128E-05 -2.79128E-05	-5.88081E-15 -5.88081E-15	-1.74455E-05 -1.04673E-05 -1.74455E-05 -1.04673E-05	
154 Raw natural gas N U		m3	-2.79296E-05	-5.88434E-15	-1.7456E-05 -1.04736E-05	
155 Infra raw natural gas N U 156 Produced natural gas Alg. U	-	m3 m3	-2.79296E-05 -3.74009E-05	-5.88434E-15 -7.8798E-15	-1.7456E-05 -1.04736E-05 -2.33755E-05 -1.40253E-05	
157 Infra produced natural gas Alg U	-	m3	-3.74009E-05	-7.8798E-15	-2.33755E-05 -1.40253E-05	
158 Raw natural gas Alg. U		m3	-3.74233E-05	-7.88453E-15	-2.33896E-05 -1.40337E-05	
159 Infra raw natural gas Alg. U160 Residual wood, hardwood, under bark, air dried, u=20%, at forest road/RER U	J	m3 m3	-3.74233E-05 -3.93559E-05	-7.88453E-15 1.78601E-06	-2.33896E-05 -1.40337E-05 -2.05768E-05 -2.05651E-05	
161 Logs, hardwood, at forest/RER U		m3	-4.40716E-05	2.00001E-06	-2.30424E-05 -2.30292E-05	
162 Residual wood, hardwood, under bark, u=80%, at forest road/RER U 163 Hardwood, allocation correction, 3/RER U		m3 m3	-4.48657E-05 -4.7508E-05	2.03605E-06 -6.32516E-05	-2.34576E-05 -2.34442E-05 9.05131E-06 6.69235E-06	
164 Wood chips, hardwood, u=80%, at forest/RER U		m3	-4.9884E-05	5.38367E-07	-2.52143E-05 -2.52081E-05	
165 Natural gas to UCPTE from D U 166 Produced natural gas D U		m3 m3	-5.66664E-05 -5.72275E-05	-1.19388E-14 -1.2057E-14	-3.54165E-05 -2.12499E-05 -3.57672E-05 -2.14603E-05	
167 Infra produced natural gas D U	-	m3	-5.72275E-05	-1.2057E-14	-3.57672E-05 -2.14603E-05	
168 Raw natural gas D U 169 Infra raw natural gas D U		m3 m3	-5.72619E-05 -5.72619E-05	-1.20642E-14 -1.20642E-14	-3.57887E-05 -2.14732E-05 -3.57887E-05 -2.14732E-05	
170 Hardwood, allocation correction, 1/RER U	-	m3	-5.97814E-05	-4.57801E-05	-6.10321E-06 -7.8981E-06	
171 Natural gas to UCPTE from GUS U		m3	-6.61655E-05	-1.39401E-14	-4.13535E-05 -2.48121E-05	
172 Natural gas to CH from GUS U 173 Produced natural gas GUS U		m3 m3	-6.61694E-05 -7.9386E-05	-1.39409E-14 -1.67254E-14	-4.13559E-05 -2.48135E-05 -4.96163E-05 -2.97698E-05	
174 Infra produced natural gas GUS U	-	m3	-7.9386E-05	-1.67254E-14	-4.96163E-05 -2.97698E-05	
175 Raw natural gas GUS U 176 Infra raw natural gas GUS U		m3 m3	-7.9585E-05 -7.9585E-05	-1.67674E-14 -1.67674E-14	-4.97406E-05 -2.98444E-05 -4.97406E-05 -2.98444E-05	
177 Industrial residue wood, softwood, forest-debarked, u=70%, at plant/RER U		m3	-9.35153E-05	0.000407366	-0.000455658 -4.52239E-05	
178 Industrial residue wood, mix, softwood, u=40%, at plant/RER U 179 Natural gas to UCPTE from NL U		m3 m3	-9.55824E-05 -0.00011751	0.000414445 -2.47576E-14	-0.000463985 -4.60416E-05 -7.34438E-05 -4.40663E-05	
180 Produced natural gas NL U		m3	-0.000119048	-2.50816E-14	-7.44049E-05 -4.4643E-05	
181 Infra produced natural gas NL U 182 Raw natural gas NL U	-	m3	-0.000119048	-2.50816E-14	-7.44049E-05 -4.4643E-05	
183 Infra raw natural gas NL U	-	m3 m3	-0.000119119 -0.000119119	-2.50967E-14 -2.50967E-14	-7.44496E-05 -4.46698E-05 -7.44496E-05 -4.46698E-05	
184 Wood chips, softwood, u=140%, at forest/RER U		m3	-0.000122128	1.10547E-06	-6.16237E-05 -6.16094E-05	
185 Wood chips, mixed, u=120%, at forest/RER U 186 Natural gas to UCPTE U		m3 m3	-0.000169622 -0.000296892	1.53538E-06 -6.25506E-14	-8.55884E-05 -8.55686E-05 -0.000185557 -0.000111334	
187 Wood chips, softwood, from industry, u=40%, at plant/RER U		m3	-0.000326452	0.001030163	-0.001234943 -0.000121672	
188 Treatment, black chrome coating effluent, to wastewater treatment, class 2/Cl- 189 Glued laminated timber, indoor use, at plant/RER U	+	m3 m3	-0.000665473 -0.005603361	0.001301556 2.29701E-05	-0.001562776 -0.000404254 -0.005251009 -0.000375322	
190 Sawn timber, softwood, raw, air dried, u=20%, at plant/RER U		m3	-0.007592327	0.000118519	-0.00719569 -0.000515157	
191 Sawn timber, softwood, raw, forest-debarked, u=70%, at plant/RER U 192 Round wood, softwood, under bark, u=70% at forest road/RER U		m3 m3	-0.007781841 -0.012625605	0.000759747 0.00127602	-0.007951431 -0.000590157 -0.012940044 -0.000961581	
193 Round wood, softwood, debarked, u=70% at forest road/RER U		m3	-0.012778953	0.001291519	-0.013097211 -0.000973261	
194 Softwood, standing, under bark, in forest/RER U		m3	-0.016714589	0.001695553	-0.017129492 -0.00128065	
195 Softwood, stand establishment / tending / site development, under bark/RER t 196 Natural gas, high pressure, 2001-02 /AU U		m3 m3	-0.016714589 -7.337797624	0.001695553 79.98995564	-0.017129492 -0.00128065 -42.58528065 -44.74247262	
197 Natural gas, 2001-02/AU U		m3	-7.337797624	79.98995564	-42.58528065 -44.74247262	
198 Shipping, oil transport/AU U 199 Shipping, international freight/AU U		tkm tkm	1531.796996 249.4231868	3287.960378 276.2944304	-1131.842482 -624.3208991 -12.92274048 -13.94850312	
200 Operation, transoceanic freight ship/OCE U		tkm	30.68966122	39.1352762	-4.861532955 -3.584082026	
201 Transport, transoceanic freight ship/OCE U 202 Articulated Truck, 28 tonne load on 30 tonne truck, (freight task)/AU U		tkm tkm	30.68946829 17.33114552	39.13508141 21.77524354	-4.8615318 -3.584081319 -2.131275741 -2.312822281	
203 Transport, freight, rail/RER U		tkm	15.30972157	17.49748428	-1.518673851 -0.669088866	
204 Operation, freight train/RER U 205 Shipping, domestic freight/AU U		tkm tkm	15.30972157 11.34487168	17.49748428 11.82399894	-1.518673851 -0.669088866 -0.229853965 -0.249273287	
206 Transport, transoceanic tanker/OCE U		tkm	10.54860916	14.32570754	-2.450948499 -1.326149884	
207 Operation, transoceanic tanker/OCE U		tkm	10.54860916	14.32570754	-2.450948499 -1.326149884 -0.584768124 -0.256856226	
208 Transport, crude oil pipeline, onshore/RER U 209 Transport, natural gas, pipeline, long distance/RU U		tkm tkm	3.464661861 2.79268531	4.303286212 5.861677871	-0.581768124 -0.256856226 -1.675879935 -1.393112626	
210 Transport, lorry 32t/RER U		tkm	2.113925641	3.514218492	-1.040618624 -0.359674227	
211 Transport, natural gas, pipeline, long distance/RER U 212 Transport, natural gas, onshore pipeline, long distance/DZ U		tkm tkm	0.682269029 0.542082276	1.350962878 0.924226379	-0.365873104 -0.302820746 -0.210542301 -0.171601802	
213 Transport, natural gas, pipeline, long distance/NL U		tkm	0.414249809	0.685643325	-0.149818725 -0.121574791	
214 Operation, barge/RER U 215 Transport, barge/RER U		tkm tkm	0.389117825 0.38911782	0.472442502 0.472442497	-0.049498864 -0.033825813 -0.049498863 -0.033825813	
216 Transport, lorry 28t/CH U		tkm	0.38911782	0.472442497	-0.070541112 -0.047367709	
217 Transport, natural gas, pipeline, long distance/DE U		tkm tkm	0.282139237 0.229682938	0.351480798 0.452413547	-0.040056713 -0.029284848 -0.121886287 -0.100844322	
218 Transport, natural gas, onshore pipeline, long distance/NO U 219 Transport, liquefied natural gas, freight ship/OCE U		tkm tkm	0.229682938 0.197317949	0.452413547 0.336418402	-0.121886287 -0.100844322 -0.076637397 -0.062463056	
220 Transport, natural gas, offshore pipeline, long distance/NO U		tkm	0.173645688	0.344249357	-0.093337928 -0.077265741	
221 Transport, barge tanker/RER U 222 Operation, barge tanker/RER U		tkm tkm	0.08684267 0.08684267	0.107134451 0.107134451	-0.014296806 -0.005994976 -0.014296806 -0.005994976	
223 Transport, freight, rail/CH U		tkm	0.039796958	0.046093666	-0.004376954 -0.001919754	
224 Operation, freight train/CH U 225 Transport, natural gas, offshore pipeline, long distance/DZ U		tkm tkm	0.039796958 0.020960515	0.046093666 0.035736753	-0.004376954 -0.001919754 -0.008140969 -0.00663527	
226 Transport, lorry 40t/CH U		tkm	0.015174688	0.01769444	-0.001601954 -0.000917798	
227 Transport, municipal waste collection, lorry 21t/CH U		tkm	0.002308011	0.002554409	-0.000140904 -0.000105494	

228 Transport, crude oil pipeline, offshore/OCE U		tkm	0.002016955	0.002515276	-0.000345673 -0.000152647
229 Transport, tractor and trailer/CH U		tkm	0.00121228	0.001391424	-0.000164347 -1.4796E-05
230 Transport, aircraft, freight/RER U 231 Operation, aircraft, freight/RER U		tkm tkm	0.000654541 0.000654541	0.000654567 0.000654567	-1.96138E-08 -5.8534E-09 -1.96138E-08 -5.8534E-09
232 Transport, van <3.5t/CH U		tkm	0.000201033	0.000269576	-4.72754E-05 -2.12676E-05
233 Transport, van <3.5t/RER U 234 Infra delivery van <3.5 t U		tkm tkm	1.20226E-05 -1.78314E-12	1.55984E-05 -3.7568E-22	-2.13148E-06 -1.44427E-06 -1.11446E-12 -6.68677E-13
235 Delivery van <3.5t ETH U		tkm	-1.78314E-12	-3.7568E-22	-1.11446E-12 -6.68677E-13
236 Truck 16t ETH U 237 Infra truck 16t U		tkm tkm	-2.5537E-07 -2.5537E-07	-5.38027E-17 -5.38027E-17	-1.59606E-07 -9.57639E-08 -1.59606E-07 -9.57639E-08
238 Truck 28t ETH U		tkm	-5.62347E-07	-1.18478E-16	-3.51467E-07 -2.1088E-07
239 Infra truck 28t U 240 Freighter inland ETH U		tkm tkm	-5.62347E-07 -2.0937E-06	-1.18478E-16 -4.41112E-16	-3.51467E-07 -2.1088E-07 -1.30856E-06 -7.85139E-07
241 Pipeline transport gas U		tkm	-6.68923E-06	-1.40932E-15	-4.18077E-06 -2.50846E-06
242 Infra natural gas pipeline U 243 Pipeline transport gas D U	-	tkm tkm	-6.68923E-06 -1.81341E-05	-1.40932E-15 -3.82057E-15	-4.18077E-06 -2.50846E-06 -1.13338E-05 -6.80027E-06
244 Infra natural gas pipeline D U	-	tkm	-1.81341E-05	-3.82057E-15	-1.13338E-05 -6.80027E-06
245 Tanker inland ETH U 246 Pipeline offshore U		tkm tkm	-2.68169E-05 -2.95897E-05	-5.64991E-15 -6.23411E-15	-1.67605E-05 -1.00563E-05 -1.84936E-05 -1.10961E-05
247 Pipeline transport gas N U		tkm	-3.2409E-05	-6.82809E-15	-2.02556E-05 -1.21534E-05
248 Infra natural gas pipeline N U 249 Pipeline transport gas Alg. U	-	tkm tkm	-3.2409E-05 -3.33153E-05	-6.82809E-15 -7.01903E-15	-2.02556E-05 -1.21534E-05 -2.08221E-05 -1.24932E-05
250 Infra pipeline gas Alg. U	-	tkm	-3.33153E-05	-7.01903E-15	-2.08221E-05 -1.24932E-05
251 Pipeline transport gas NL U 252 Infra natural gas pipeline NL U		tkm tkm	-4.70066E-05 -4.70066E-05	-9.90358E-15 -9.90358E-15	-2.93791E-05 -1.76275E-05 -2.93791E-05 -1.76275E-05
253 Rail transport ETH U		tkm	-8.64811E-05	-1.82203E-14	-5.40507E-05 -3.24304E-05
254 Infra rail transport U 255 Infra freight train U	-	tkm tkm	-8.64811E-05 -8.64811E-05	-1.82203E-14 -1.82203E-14	-5.40507E-05 -3.24304E-05 -5.40507E-05 -3.24304E-05
256 Truck 40t ETH U		tkm	-9.33341E-05	-1.96641E-14	-5.83338E-05 -3.50003E-05
257 Infra truck 40t U 258 Infra road delivery van U		tkm tkm	-9.33341E-05 -9.41518E-05	-1.96641E-14 -1.98364E-14	-5.83338E-05 -3.50003E-05 -5.88449E-05 -3.53069E-05
259 Freighter oceanic ETH U		tkm	-0.000140019	-2.94998E-14	-8.75117E-05 -5.2507E-05
260 Pipeline transport gas GUS U 261 Infra natural gas pipeline GUS U	 -	tkm tkm	-0.000317613 -0.000317613	-6.69163E-14 -6.69163E-14	-0.000198508 -0.000119105 -0.000198508 -0.000119105
262 Pipeline onshore U		tkm	-0.000317013	-8.96649E-14	-0.000198308 -0.000119103
263 Tanker oceanic ETH U 264 Transport, lorry 16t/CH U		tkm tkm	-0.000982312 -0.004139629	-2.06958E-13 0.026798178	-0.000613945 -0.000368367 -0.028210408 -0.002727398
265 Transport, lorry 16t/RER U		tkm	-0.037944573	0.019657004	-0.053400691 -0.004200886
266 Articulated Truck, 30 tonne load on 30 tonne truck, (freight task)/AU U		tkm	-0.370581541	1.076883903	-0.69426066 -0.753204784
267 Rail - bulk transport/AU U 268 Transport, helicopter/GLO U		tkm s	-6.849901477 0.003981452	59.0403519 0.007266847	-31.59965124 -34.29060214 -0.001803786 -0.001481609
269 Power saw (per hour) U		S	-4.11793E-07	-8.67586E-17	-2.57371E-07 -1.54422E-07
270 Front end loader/AU U 271 Power sawing, without catalytic converter/RER U		s s	-11.25146597 -16.24156748	47.38594412 1.770748651	-28.12051884 -30.51689125 -16.74199995 -1.270316189
272 Transport, passenger car/RER U		personkm	0.010076774	0.011094592	-0.000627607 -0.000390212
273 Transport, passenger car/CH U 274 Petrol, unleaded, at consumer/AU U		personkm kg	0.000340159 212.7912728	0.000594027 449.2260203	-0.000191172 -6.26954E-05 -153.6825859 -82.75216163
275 Water, decarbonised, at plant/RER U		kg	75.42961949	105.9095464	-16.60534853 -13.8745784
276 Tap water, at user/RER U 277 Disposal, sulfidic tailings, off-site/GLO U		kg kg	73.41578583 36.01501989	74.10680547 36.56072708	-0.42626574 -0.264753904 -0.357746938 -0.187960246
278 Rolled steel, blast furnace, 20% recycled content/AU U		kg	30.14045817	31.47480246	-0.639908245 -0.694436052
279 Rolled steel, 20% recycled BOS route/AU U 280 Steel, slab 20% recyceld, BOS route/AU U		kg kg	30.14042083 30.13945658	31.47480246 31.47480246	-0.639931579 -0.694450052 -0.640642079 -0.694703802
281 Reprocessing steel & tinplate/AU U		kg	17.94198214	17.94198214	-8.5652E-15 -7.80626E-15
282 Recycling ferro metals/AU U		kg	17.94198214	17.94198214	-1.40938E-14 -9.15092E-15
283 Sheet rolling, steel/RER U 284 Cement, replacement for flyash - No credit/AU U		kg kg	16.61577115 15.9665594	16.62235082 -67.58262068	-0.005904572 -0.00067509 40.06749155 43.48168853
285 LPG, at consumer/AU U		kg	15.13924913	31.95667163	-10.93132463 -5.886097875
286 Iron orE/AU U 287 Metal input to BOS furnace/AU U		kg kg	12.86278296 12.19038985	14.2603069 13.48567535	-0.672092641 -0.725431299 -0.621422816 -0.673862688
288 Iron ore sinter, Bluescope Port Kembla/AU U		kg	10.48373527	11.5976808	-0.534423622 -0.579521912
289 Pig iron, Bluescope Port Kembla/AU U 290 Flaring - oil & gas production 2001-02/AU U		kg kg	9.752311879 9.42646228	10.78854028 23.38377392	-0.497138253 -0.53909015 -8.551846155 -5.405465489
291 Hydro processing/AU U		kg	9.056141983	18.85992678	-6.350418439 -3.453366361
292 Diesel, low sulphur, at consumer/AU U 293 Diesel, low sulfur, 2001-02, - energy allocation/AU U	-	kg kg	9.056141983 9.056141983	18.85992678 18.85992678	-6.350418439 -3.453366361 -6.350418439 -3.453366361
294 Lignite, at mine/RER U		kg	8.537263477	9.390906792	-0.542998565 -0.310644749
295 Limestone (calcilte)/AU U 296 Coke for steelmaking/AU U		kg kg	7.464722995 5.558817771	10.97693073 6.149467961	-1.684379699 -1.82782804 -0.283368804 -0.307281386
297 Calcined Lime/AU U		kg	5.177842933	5.406182369	-0.109547282 -0.118792153
298 Water (delivered)/AU U 299 Sand, at mine/CH U		kg kg	4.855620858 4.338920712	4.953388673 4.59083131	-0.062163337 -0.035604478 -0.134654463 -0.117256135
300 Section bar rolling, steel/RER U		kg	4.328489449	4.338690046	-0.007406641 -0.002793955
301 Bauxite/AU U 302 Gravel, crushed, at mine/CH U		kg kg	4.242764447 3.657060306	4.416794978 5.164431297	-0.083460473 -0.090570058 -1.326697789 -0.180673202
303 Iron ore pellets/AU U		kg	3.228015232	3.571006834	-0.164552762 -0.17843884
304 Iron ore, 46% Fe, at mine/GLO U 305 Dolomite/AU U		kg kg	3.189189921 2.652272179	4.404275024 2.769782617	-0.6846677 -0.530417404 -0.056376503 -0.061133935
306 Fuel oil, at consumer/AU U		kg	2.568423362	5.87155942	-1.960674336 -1.342461722
307 Use of blast furnace slag/AU U 308 Steel scrap from external sources external/AU U		kg ka	2.535601089 2.43807797	2.805020474 2.697135071	-0.129255946 -0.140163439 -0.124284563 -0.134772538
309 Reprocessing steel cans, Bluescope, Port Kembla/AU U		kg kg	2.43807797	2.697135071	-0.124284563 -0.134772538
310 Polyethylene, HDPE, granulate, at plant/RER U		kg	2.411769701	2.414319663	-0.001647551 -0.000902412
311 Oxygen, liquid/AU U 312 Water, deionised, at plant/CH U		kg kg	2.352026325 2.252665436	2.462346123 2.302193347	-0.052984433 -0.057335365 -0.045598682 -0.00392923
313 Wire drawing, steel/RER U		kg	2.179947451	2.193694226	-0.00883395 -0.004912825
314 Process-specific burdens, inert material landfill/CH U 315 Disposal, inert waste, 5% water, to inert material landfill/CH U		kg kg	2.093049468 1.951185966	3.332100138 3.109208688	-0.728565712 -0.510484958 -0.665606143 -0.492416579
316 Iron ore, 65% Fe, at beneficiation/GLO U		kg	1.899020373	2.630917728	-0.41238815 -0.319509205
317 Fugitives - crude refining and storage 2001-02/AU U 318 Limestone, at mine/CH U	-	kg kg	1.791057065 1.756309412	3.849324173 2.142883811	-1.326725294 -0.731541815 -0.222303616 -0.164270784
319 Disposal, building, reinforced concrete, to final disposal/CH U		kg	1.665187337	1.895246757	-0.146631758 -0.083427662
320 Aluminium, primary, including NPI emission estimates/AU U 321 Steel, converter, unalloyed, at plant/RER U		kg kg	1.590408 1.585537948	1.590408 1.666118794	-1.89756E-15 -1.32334E-15 -0.047236419 -0.033344427
322 Disposal, hard coal mining waste tailings, in surface backfill/kg/GLO U		kg	1.546530477	1.96279654	-0.24009082 -0.176175244
323 Hard coal supply mix/DE U 324 Alumina/AU U		kg kg	1.530374058 1.373992748	1.683249917 1.407765229	-0.097351478 -0.05552438 -0.016196166 -0.017576315
325 Hard coal, at regional storage/WEU U		kg	1.370820813	1.695157563	-0.18994271 -0.134394039
326 Hard coal, at mine/WEU U 327 Gravel, round, at mine/CH U		kg kg	1.370820813 1.309610119	1.695157563 2.577293327	-0.18994271 -0.134394039 -0.738782165 -0.528901043
328 Limestone, crushed, for mill/CH U		kg	1.307740213	1.529753299	-0.128127506 -0.09388558
329 Limestone, milled, loose, at plant/CH U 330 Sinter, iron, at plant/GLO U		kg kg	1.307500268 1.167578219	1.529489133 1.616909441	-0.128112575 -0.09387629 -0.25324897 -0.196082252
331 Pig iron, at plant/GLO U		kg	1.111979256	1.539913753	-0.241189495 -0.186745002
332 Polypropylene, granulate, at plant/RER U 333 Clay, at mine/CH U		kg kg	1.104442774 1.097714906	1.104562326 1.207119886	-8.82557E-05 -3.12966E-05 -0.068144748 -0.041260232
334 Crude oil, at production onshore/RME U		kg kg	1.090107168	1.205072501	-0.07956702 -0.035398313
335 Discharge, produced water, onshore/GLO U 336 Heavy fuel oil, at refinery/RER U		kg	1.055751424 1.021865533	1.251889889 1.195193571	-0.13452389 -0.061614576 -0.113630888 -0.05969715
337 Heavy fuel oil, at regional storage/RER U		kg kg	0.995700052	1.162628707	-0.109108958 -0.057819697
338 Synthetic rubber, at plant/RER U 339 Extrusion, plastic pipes/RER U		kg	0.942680943 0.942680943	0.944492452 0.944492452	-0.001344598 -0.000466912
339 Extrusion, plastic pipes/RER U 340 Reprocessing aluminium/AU U		kg kg	0.942680943	0.944492452	-0.001344598 -0.000466912 -2.02604E-16 -2.87669E-17
341 Recycling Aluminium/AU U		kg	0.9387825	0.9387825	4.26905E-16 3.15096E-16
342 Lead, concentrate, at beneficiation/GLO U 343 Fugitives - oil & gas exploration 2001-02/AU U	-	kg kg	0.929445457 0.783848108	0.930066672 1.944454495	-0.000453822 -0.000167393 -0.711120273 -0.449486114
344 Silica sand, at plant/DE U 345 Flat glass, uncoated, at plant/RER U		kg kg	0.661355452 0.654570573	0.828595689 0.655796858	-0.085765294 -0.081474943 -0.000825773 -0.000400512
345 Flat glass, uncoaled, at plant/RER 0 346 Hard coal, at regional storage/ZA U		kg kg	0.646192988	0.813740101	-0.097536831 -0.070010282

347 Hard coal, at mine/ZA U 348 Packing, lime products/CH U	kg kg	0.646192988 0.624885718	0.813740101 0.784873185	-0.097536831 -0.070010282 -0.08818703 -0.071800437
349 Limestone, milled, packed, at plant/CH U	kg	0.623894769	0.783639338	-0.088035608 -0.071708962
350 Clinker, at plant/CH U	kg	0.61569513	0.672975365	-0.036997193 -0.020283042
351 Brick, at plant/RER U 352 Disposal, building, brick, to final disposal/CH U	kg kg	0.605920717 0.605586443	0.667086239 0.666759647	-0.037703681 -0.023461841 -0.037708788 -0.023464416
353 Venting - gas processing plant 2001-02/AU U	kg	0.60065956	10.48503011	-5.056180662 -4.828189891
354 Hard coal supply mix/ES U	kg	0.594364484	0.653021013	-0.037260131 -0.021396399
355 Water, completely softened, at plant/RER U 356 Process-specific burdens, municipal waste incineration/CH U	kg kg	0.590677304 0.516541181	1.793812313 0.562352825	-0.629436389 -0.57369862 -0.030946968 -0.014864676
357 Disposal, cement, hydrated, 0% water, to residual material landfill/CH U	kg	0.507451382	0.556017843	-0.027290187 -0.021276274
358 Diesel, at refinery/RER U 359 Hard coal, at regional storage/EEU U	kg	0.491114185 0.481567799	0.659908685 0.912689051	-0.127523226 -0.041271275 -0.240748426 -0.190372827
360 Hard coal, at mine/EEU U	kg kg	0.481567799	0.912689051	-0.240748426 -0.190372827
361 Diesel, at regional storage/RER U	kg	0.480347081	0.643809301	-0.123865369 -0.039596851
362 Ethylene, average, at plant/RER U 363 Lime (CaO)/AU U	kg kg	0.468113954 0.460855403	0.468360692 0.512111537	-0.000154205 -9.25328E-05 -0.024590085 -0.02666605
364 Petroleum coke/AU U	kg	0.44874656	0.474442153	-0.012331251 -0.013364343
365 Pellets, iron, at plant/GLO U	kg	0.444791703	0.615965501	-0.096475798 -0.074698001
366 Limestone, crushed, washed/CH U 367 Crude oil, production RME, at long distance transport/RER U	kg kg	0.437436135 0.428802793	0.597716504 0.53474621	-0.091763094 -0.068517274 -0.073490484 -0.032452934
368 Portland calcareous cement, at plant/CH U	kg	0.416470604	0.428604437	-0.007273258 -0.004860575
369 Hard coal mix, at regional storage/UCTE U	kg	0.414428539 0.397064868	1.346012747 0.415238718	-0.514668345 -0.416915862 -0.010186854 -0.007986995
370 Disposal, sludge from steel rolling, 20% water, to residual material landfill/CH t 371 Crude oil, production NO, at long distance transport/RER U	kg kg	0.381345953	0.475564364	-0.065357118 -0.028861292
372 Crude oil, at production offshore/NO U	kg	0.381345953	0.475564364	-0.065357118 -0.028861292
373 Iron scrap/AU U 374 Discharge, produced water, offshore/OCE U	kg kg	0.370587851 0.365206295	0.409964531 0.455437219	-0.018891254 -0.020485426 -0.06259109 -0.027639835
375 Hard coal, at regional storage/RNA U	kg	0.364800641	0.460721929	-0.055792393 -0.040128895
376 Hard coal, at mine/RNA U	kg	0.364800641	0.460721929	-0.055792393 -0.040128895
377 Hard coal, at regional storage/AU U 378 Hard coal, at mine/AU U	kg kg	0.360464336 0.360464336	0.4559989 0.4559989	-0.055556257 -0.039978307 -0.055556257 -0.039978307
379 Zinc, concentrate, at beneficiation/GLO U	kg	0.350665708	0.351923188	-0.000958411 -0.000299069
380 Polyvinylchloride, at regional storage/RER U	kg	0.350055104	0.351073562	-0.000620019 -0.000398439
381 Carbon black, at plant/GLO U 382 Iron scrap, at plant/RER U	kg kg	0.347849276 0.344800043	0.348517726 0.588226284	-0.000496158 -0.000172292 -0.138600935 -0.104825305
383 Hard coal, at regional storage/RLA U	kg	0.326683402	0.408186421	-0.047557949 -0.033945069
384 Hard coal, at mine/RLA U	kg	0.326683402	0.408186421	-0.047557949 -0.033945069
385 Disposal, lignite ash, 0% water, to opencast refill/GR U 386 Crude oil, production RU, at long distance transport/RER U	kg kg	0.320637703 0.311854874	0.352489267 0.388904204	-0.020230867 -0.011620697 -0.053447361 -0.023601969
387 Crude oil, at production onshore/RU U	kg	0.311854874	0.388904204	-0.053447361 -0.023601969
388 Hard coal supply mix/FR U	kg ka	0.306714266	0.337531823	-0.019705555 -0.011112002 -0.052285598 -0.023088994
389 Crude oil, production GB, at long distance transport/RER U 390 Crude oil, at production offshore/GB U	kg kg	0.305075845 0.305075845	0.380450438 0.380450438	-0.052285598 -0.023088994
391 Disposal, lignite ash, 0% water, to opencast refill/DE U	kg	0.291457668	0.320719931	-0.018638098 -0.010624165
392 Polyvinylchloride, suspension polymerised, at plant/RER U 393 Calcareous marl, at plant/CH U	kg kg	0.287046155 0.28691393	0.287881405 0.31360652	-0.000508483 -0.000326767 -0.017240692 -0.009451898
394 Disposal, wood untreated, 20% water, to municipal incineration/CH U	kg	0.285860003	0.314509186	-0.017621761 -0.011027422
395 Copper, concentrate, at beneficiation/RER U	kg	0.282997623	0.287593808	-0.002798547 -0.001797638
396 Hard coal supply mix/IT U 397 Lead, at regional storage/RER U	kg kg	0.281480036 0.280799232	0.309286492 0.28098691	-0.017668342 -0.010138114 -0.000137106 -5.0572E-05
398 Caustic soda/AU U	kg	0.278901998	0.28483612	-0.002921342 -0.00301278
399 Crude oil, at production onshore/RAF U	kg	0.269039292	0.335366169	-0.044215197 -0.02211168
400 Disposal, building, waste wood, untreated, to final disposal/CH U 401 Hard coal supply mix/NL U	kg kg	0.258818593 0.256398755	0.285315033 0.282137666	-0.016123417 -0.010373023 -0.016307347 -0.009431564
402 Copper, at regional storage/RER U	kg	0.230964771	0.234715886	-0.002283997 -0.001467118
403 Lubricating oil, at plant/RER U	kg	0.229896575	0.238687108	-0.005731919 -0.003058614
404 Portland cement, strength class Z 42.5, at plant/CH U 405 Disposal, lignite ash, 0% water, to opencast refill/ES U	kg kg	0.22040608 0.206730208	0.263132865 0.227267241	-0.027558949 -0.015167836 -0.013044316 -0.007492716
406 Cement, unspecified, at plant/CH U	kg	0.20512474	0.225069372	-0.01122597 -0.008718662
407 Oxygen, liquid, at plant/RER U 408 Thermal coal 2001-02/AU U	kg	0.196472896	0.279012931 0.33088352	-0.045961052 -0.036578982 -0.069706836 -0.075640878
409 Crude oil, production RAF, at long distance transport/RER U	kg kg	0.185535806 0.183049432	0.228274864	-0.0313718 -0.013853631
410 Disposal, lignite ash, 0% water, to opencast refill/CS U	kg	0.177767875	0.195427754	-0.011216857 -0.006443022
411 Soda, powder, at plant/RER U 412 Hard coal, at regional storage/CPA U	kg kg	0.17682279 0.164176186	0.179011145 0.208975409	-0.001199203 -0.000989151 -0.025993454 -0.018805769
413 Hard coal, at mine/CPA U	kg	0.164176186	0.208975409	-0.025993454 -0.018805769
414 Process-specific burdens, hazardous waste incineration plant/CH U	kg	0.15944291	0.163573032	-0.002873903 -0.001256219
415 Reinforcing steel, at plant/RER U 416 Disposal, used mineral oil, 10% water, to hazardous waste incineration/CH U	kg kg	0.158941982 0.156872276	0.197533308 0.160553628	-0.024804203 -0.013787122 -0.002592734 -0.001088618
417 Wire drawing, copper/RER U	kg	0.154876006	0.215434645	-0.034770077 -0.025788562
418 Hard coal supply mix/PT U	kg	0.15450465	0.169752275	-0.00968568 -0.005561945
419 Sulphuric acid, liquid, at plant/RER U 420 Blast furnace slag cement, at plant/CH U	kg kg	0.149328765 0.14920858	0.154454771 0.161193655	-0.003011351 -0.002114654 -0.009155425 -0.002829649
421 Copper, concentrate, at beneficiation/RLA U	kg	0.147766641	0.15016653	-0.001461256 -0.000938633
422 Steam, for chemical processes, at plant/RER U 423 Hard coal supply mix/BE U	kg ka	0.147185481 0.140861043	0.147915991 0.154781166	-0.000527423 -0.000203088 -0.008840851 -0.005079272
424 Sodium chloride, powder, at plant/RER U	kg kg	0.139824942	0.230606553	-0.046056677 -0.044724934
425 Zinc for coating, at regional storage/RER U	kg	0.13148608	0.131969984	-0.000369179 -0.000114725
426 Disposal, steel in car shredder residue, 0% water, to municipal incineration/CH 427 Tap water, at user/CH U	kg kg	0.131266354 0.128822837	0.131318511 0.147613711	-4.67591E-05 -5.39803E-06 -0.013883678 -0.004907196
428 Packing, cement/CH U	kg	0.125489856	0.138205175	-0.00782801 -0.004887309
429 Cement mortar, at plant/CH U	kg	0.125489856	0.138205175	-0.00782801 -0.004887309
430 Process-specific burdens, slag compartment/CH U 431 Disposal, building, cement (in concrete) and mortar, to final disposal/CH U	kg kg	0.124567247 0.124397591	0.128042711 0.137004194	-0.002803478 -0.000671985 -0.007759198 -0.004847405
432 Crude oil, at production/NG U	kg	0.116056472	0.144632809	-0.018607112 -0.009969225
433 Naphtha, at refinery/RER U 434 Bitumen, at refinery/CH U	kg ka	0.115173472 0.111664805	0.131815287 0.135977063	-0.011546196 -0.005095618 -0.014843816 -0.009468442
435 Bauxite, at mine/GLO U	kg kg	0.111087357	0.172293681	-0.034151582 -0.027054742
436 Aluminium hydroxide, at plant/RER U	kg	0.107639602	0.111328332	-0.002416009 -0.001272721
437 Ethylene glycol, at plant/RER U 438 Quicklime, in pieces, loose, at plant/CH U	kg kg	0.105914284 0.101545389	0.106012952 0.179925078	-6.10192E-05 -3.76492E-05 -0.043854744 -0.034524946
439 Disposal, hard coal ash, 0% water, to residual material landfill/ES U	kg	0.091473116	0.100500397	-0.005734361 -0.003292921
440 Alkyd paint, white, 60% in solvent, at plant/RER U	kg	0.088966894	0.089040446	-5.11003E-05 -2.24523E-05
441 Light fuel oil, at refinery/RER U 442 Crude oil, production RAF, at long distance transport/CH U	kg kg	0.086269779 0.085989859	0.096646937 0.107091306	-0.007608346 -0.002768813 -0.012843397 -0.008258049
443 Rock wool, at plant/CH U	kg	0.081532678	0.089675835	-0.005068354 -0.003074802
444 Disposal, building, mineral wool, to final disposal/CH U 445 Rock wool, packed, at plant/CH U	kg ka	0.081309688 0.081295139	0.089330432 0.089359019	-0.004997733 -0.003023011 -0.005013572 -0.003050308
445 Rock wool, packed, at plant/CH U 446 Disposal, mineral wool, 0% water, to inert material landfill/CH U	kg kg	0.081295139	0.089359019	-0.005013572 -0.003050308 -0.005618894 -0.003086791
447 Ethylene oxide, at plant/RER U	kg	0.0799563	0.080089674	-8.22212E-05 -5.11535E-05
448 Steel, electric, un- and low-alloyed, at plant/RER U 449 Aluminium oxide, at plant/RER U	kg kg	0.072920022 0.069901272	0.096249825 0.072300072	-0.016118472 -0.007211331 -0.001571312 -0.000827488
450 Hard coal, at regional storage/RU U	kg	0.069567543	0.096940986	-0.01561586 -0.011757584
451 Hard coal, at mine/RU U	kg	0.069567543	0.096940986	-0.01561586 -0.011757584
452 Light fuel oil, at regional storage/RER U 453 Naphtha, at regional storage/RER U	kg kg	0.069093964 0.067093526	0.077058032 0.083690588	-0.006169278 -0.001794789 -0.011514013 -0.005083049
454 Chemicals organic, at plant/GLO U	kg	0.064838838	0.066075696	-0.000759676 -0.000477182
455 Pitch/AU U	kg	0.064824273	0.066417642	-0.000764127 -0.000829242
456 Crude oil, production NG, at long distance transport/CH U 457 Refinery gas, at refinery/RER U	kg kg	0.058261251 0.057853797	0.07255824 0.073015856	-0.008701862 -0.005595127 -0.010720251 -0.004441809
458 Crude oil, production NG, at long distance transport/RER U	kg	0.057795221	0.072074569	-0.00990525 -0.004374098
459 Disposal, steel, 0% water, to inert material landfill/CH U 460 Copper, primary, at refinery/RER U	kg kg	0.055264891 0.05520058	0.064272196 0.056097097	-0.005979593 -0.003027712 -0.000545875 -0.000350641
461 Chromium, at regional storage/RER U	kg	0.051189748	0.05124024	-3.95531E-05 -1.09394E-05
462 Copper, secondary, at refinery/RER U	kg	0.05081225	0.051637495	-0.000502479 -0.000322766
463 Disposal, building, bulk iron (excluding reinforcement), to sorting plant/CH U 464 Disposal, redmud from bauxite digestion, 0% water, to residual material landfill	kg kg	0.050715013 0.050590613	0.054514131 0.052324316	-0.002718863 -0.001080256 -0.001135524 -0.000598179
465 SOx retained, in lignite flue gas desulphurisation/GLO U	kg	0.049805948	0.054803446	-0.003180869 -0.001816629

466 Flaring in oil & gas production 00-01/AU U	kg	0.047012682	0.049390928	-0.001141164	
467 Hard coal supply mix/AT U 468 Chemicals inorganic, at plant/GLO U	kg kg	0.046644656 0.044612278	0.051360002 0.045732652	-0.003021209 -0.000742402	-0.001694137 -0.000377972
469 Basalt, at mine/RER U	kg	0.043049254	0.047348841	-0.002676091	-0.001623496
470 Polyvinylchloride, emulsion polymerised, at plant/RER U 471 Disposal, basic oxygen furnace wastes, 0% water, to residual material landfill/(kg kg	0.042006612 0.040891468	0.042128827 0.065042529	-7.44022E-05 -0.013435336	
472 Copper, concentrate, at beneficiation/ID U	kg	0.040271017	0.040925062	-0.000398238	-0.000255807
473 Copper, primary, at refinery/RLA U 474 Disposal, building, reinforced concrete, to sorting plant/CH U	kg kg	0.039033046 0.038929426	0.039666985 0.042815103	-0.000385995 -0.002457264	
475 Disposal, lignite ash, 0% water, to opencast refill/BA U	kg	0.03722924	0.040927591	-0.002349047	-0.001349303
476 Aluminium, primary, liquid, at plant/RER U 477 Aluminium, primary, at plant/RER U	kg ka	0.036175307 0.036175307	0.037409768 0.037409768	-0.000806763 -0.000806763	
477 Administri, printary, at plant/RER U 478 White spirit, at plant/RER U	kg kg	0.036132136	0.037409768	-2.09692E-05	
479 Disposal, hazardous waste, 0% water, to underground deposit/DE U	kg	0.035477693	0.036633834	-0.000668368	
480 Packing, fibre cement products/CH U 481 Fibre cement corrugated slab, at plant/CH U	kg kg	0.035340357 0.034951279	0.037745629 0.03731568	-0.001832088 -0.001805136	
482 Disposal, cement-fibre slab, 0% water, to municipal incineration/CH U	kg	0.034948626	0.037312545	-0.001804693	
483 Disposal, building, cement-fibre slab, to final disposal/CH U 484 Secondary sulphur, at refinery/RER U	kg kg	0.034948626 0.031979228	0.037312545 0.033080812	-0.001804693 -0.000647007	
485 SOx retained, in hard coal flue gas desulphurisation/RER U	kg	0.031106563	0.034212044	-0.001976409	-0.001129072
486 Copper, from imported concentrates, at refinery/DE U 487 Explosives, tovex, at plant/CH U	kg kg	0.030256385 0.030185188	0.030747781 0.033411891	-0.000299204 -0.001842214	
488 Blasting/RER U	kg	0.030124015	0.03332946	-0.001830379	
489 Titanium dioxide, production mix, at plant/RER U 490 Nickel, 99.5%, at plant/GLO U	kg kg	0.02982569 0.02982447	0.029963956 0.029865981	-9.16404E-05 -3.81839E-05	
491 Disposal, municipal solid waste, 22.9% water, to municipal incineration/CH U	kg	0.029040866	0.030807196	-0.001043825	
492 Nitric acid, 50% in H2O, at plant/RER U 493 Disposal, average incineration residue, 0% water, to residual material landfill/C	kg ka	0.028605953 0.028108486	0.030084835 0.028495414	-0.0008866 -0.000250786	-0.000592282
494 Disposal, lignite ash, 0% water, to opencast refill/MK U	kg kg	0.027377596	0.030097102	-0.000230780	
495 Heavy fuel oil, at refinery/CH U	kg	0.027103158	0.036010756	-0.005136152	
496 Heavy fuel oil, at regional storage/CH U 497 Alkyd resin, long oil, 70% in white spirit, at plant/RER U	kg kg	0.026268892 0.026156289	0.034969887 0.026177922	-0.005009876 -1.50284E-05	
498 Disposal, building, fibre board, to final disposal/CH U	kg	0.025603574	0.02717747	-0.001193885	
499 Disposal, residues Na-dichromate prod., 0% water, to residual material landfill/ 500 Light fuel oil, at regional storage/CH U	kg kg	0.025474719 0.024784646	0.025498147 0.028266708	-1.84833E-05 -0.002076558	
501 Disposal, lignite ash, 0% water, to opencast refill/SI U	kg	0.023538233	0.025876551	-0.001485213	-0.000853105
502 Steel, low-alloyed, at plant/RER U 503 Ammonia, liquid, at regional storehouse/RER U	kg kg	0.022978278 0.022956843	0.047119848 0.024420631	-0.01856893 -0.000917344	-0.00557264 -0.000546444
504 Process-specific burdens, sanitary landfill/CH U	kg	0.02262032	0.02920624	-0.005280746	
505 NOx retained, in SCR/GLO U 506 Sodium dichromate, at plant/RER U	kg ka	0.021407229 0.021228932	0.023547426 0.021248456	-0.001362358 -1.54027E-05	
507 Polyvinylchloride, bulk polymerised, at plant/RER U	kg kg	0.021015087	0.021077485		-2.44229E-05
508 Disposal, inert material, 0% water, to sanitary landfill/CH U	kg	0.020903714	0.023111839	-0.001434025	
509 Bentonite, at processing/DE U 510 Bentonite, at mine/DE U	kg kg	0.020351112 0.020351112	0.027638174 0.027638174		-0.003151016 -0.003151016
511 Crude oil, production RLA, at long distance transport/RER U	kg	0.020169555	0.025152758		-0.001526473
512 Extrusion, plastic film/RER U 513 Nitrogen, liquid, at plant/RER U	kg kg	0.019872192 0.019478446	0.022226856 0.020406586	-0.001389659 -0.000654821	
514 Portland cement, strength class Z 52.5, at plant/CH U	kg	0.018789278	0.022441398	-0.002197785	
515 Hard coal supply mix/HR U 516 Disposal, natural gas pipeline, 0% water, to inert material landfill/CH U	kg kg	0.018360718 0.017644003	0.020172852 0.034108809	-0.001151112 -0.009016953	
517 Diesel, at regional storage/CH U	kg	0.017282671	0.025841708	-0.005871359	
518 Aluminium, production mix, at plant/RER U	kg	0.01557814	0.017279699		-0.000602176
519 Quicklime, milled, loose, at plant/CH U 520 Titanium dioxide, chloride process, at plant/RER U	kg kg	0.015134337 0.015039798	0.017340588 0.015120446		-0.000957316 -2.73091E-05
521 Titanium dioxide at plant, sulphate process, at plant/RER U	kg	0.014912845	0.014981978	-4.58202E-05	
522 Steel, converter, low-alloyed, at plant/RER U 523 Drawing of pipes, steel/RER U	kg kg	0.014476315 0.014457917	0.029685504 0.021958625	-0.011698426 -0.004385394	-0.003510763 -0.003115314
524 HDPE, High density polyethylene/AU U	kg	0.014333477	0.040359933	-0.020920255	-0.005106201
525 Soy beans IP, at farm/CH U 526 Soya oil, at plant/RER U	kg kg	0.014127483 0.014093659	0.01685117 0.016810824	-0.002528084 -0.002522031	-0.000195603 -0.000195135
527 Polyethylene, LDPE, granulate, at plant/RER U	kg	0.012728012	0.014079735	-0.000789823	-0.0005619
528 Industrial residual wood chopping, stationary electric chopper, at plant/RER U 529 Ethene from Ethane/AU U	kg kg	0.012642532 0.011896786	0.249307471 0.033498744	-0.21334044 -0.017363812	-0.023324499 -0.004238147
530 Hard coal supply mix/PL U	kg	0.011844551	0.01322065		-0.000512642
531 Disposal, building, glass sheet, to final disposal/CH U 532 Solid manure loading and spreading, by hydraulic loader and spreader/CH U	kg	0.011635335	0.012612408	-0.000655468	
533 Crude oil, production RME, at long distance transport/CH U	kg kg	0.011531634 0.011527631	0.013714926 0.014356449	-0.002004558 -0.00172176	-0.000178734
534 Xylene, at plant/RER U	kg	0.011188234	0.01125787	-4.35143E-05	-2.6122E-05
535 Packaging film, LDPE, at plant/RER U 536 Benzene, at plant/RER U	kg kg	0.011065811 0.010918819	0.012167412 0.011256937	-0.000655556 -0.000208531	
537 Anode, aluminium electrolysis/RER U	kg	0.010399793	0.017547243	-0.003986157	-0.003161293
538 Disposal, facilities, chemical production/RER U 539 Disposal, hard coal ash, 0% water, to residual material landfill/DE U	kg kg	0.010359244 0.009651376	0.014502695 0.010613865	-0.003219891 -0.000613111	
540 Facilities, chemical production/RER/I U	kg	0.009415716	0.013558053	-0.003219097	-0.00092324
541 Aluminium fluoride/AU U 542 Disposal, polyvinylchloride, 0.2% water, to municipal incineration/CH U	kg kg	0.009159952 0.008906431	0.009385102 0.009882227	-0.000107974 -0.000586441	
543 Barite, at plant/RER U	kg	0.008745255	0.012160731	-0.002108604	
544 Disposal, PE sealing sheet, 4% water, to municipal incineration/CH U	kg	0.008614418	0.009550523		-0.000378785 -0.000378785
545 Disposal, building, polyvinylchloride products, to final disposal/CH U 546 Disposal, building, PE sealing sheet, to final disposal/CH U	kg kg	0.008614418 0.008614418	0.009550523 0.009550523		-0.000378785
547 Polystyrene, expandable, at plant/RER U	kg	0.008593963	0.009167547	-0.000433925	
548 Fresh fruit bunch harvesting, at farm/MY U 549 Disposal, expanded polystyrene, 5% water, to municipal incineration/CH U	kg kg	0.008490098 0.008058348	0.008549191 0.008589169	-0.000404475	-2.12114E-05 -0.000126346
550 Disposal, building, polystyrene isolation, flame-retardant, to final disposal/CH L	kg	0.008058348	0.008589169		-0.000126346
551 Polystyrene foam slab, at plant/RER U 552 Foaming, expanding/RER U	kg kg	0.008058345 0.008058345	0.008589166 0.008589166	-0.000404475 -0.000404475	-0.000126346 -0.000126346
553 H2SiF6/AU U	kg	0.007877558	0.008071187	-9.2858E-05	-0.000100771
554 Cumene, at plant/RER U 555 Light fuel oil, at refinery/CH U	kg kg	0.007629652 0.007608886	0.00796424 0.008677879	-0.000206556 -0.000637503	-0.000128032 -0.00043149
556 Copper, SX-EW, at refinery/GLO U	kg	0.00731544	0.00743425	-7.23419E-05	-4.64686E-05
557 Ammonium nitrate, as N, at regional storehouse/RER U 558 Phthalic anhydride, at plant/RER U	kg kg	0.007170637 0.007011002	0.007761524 0.007017655	-0.000347929 -4.6789E-06	-0.000242958 -1.97487E-06
559 Disposal, drilling waste, 71.5% water, to landfarming/CH U	kg	0.006571468	0.008859769	-0.001444966	-0.000843335
560 Diesel, at refinery/CH U 561 Steel, electric, un- and low-alloyed, at plant/RER S	kg kg	0.006515567 0.0062745	0.009742324 0.012549	-0.002213502 -0.0062745	-0.001013255 5.4601E-16
562 Propylene, at plant/RER U	kg	0.006110269	0.006309677	-0.0002743	
563 Acetic acid, 98% in H2O, at plant/RER U	kg	0.006041668	0.006182884	-9.14734E-05	
564 Disposal, building, concrete, not reinforced, to final disposal/CH U 565 Penta-erythritol, at plant/RER U	kg kg	0.005960113 0.005938617	0.010709894 0.005944424	-0.002902341 -4.09332E-06	
566 Copper, blister-copper, at primary smelter/RER U	kg	0.005792596	0.005886674	-5.72826E-05	
567 Disposal, paper, 11.2% water, to municipal incineration/CH U 568 Crude oil, production NL, at long distance transport/RER U	kg kg	0.005730179 0.005694745	0.007143571 0.007101736	-0.000793028 -0.000975997	
569 Crude oil, at production onshore/NL U	kg	0.005694745	0.007101736	-0.000975997	-0.000430994
570 Phenol, at plant/RER U 571 Soap, at plant/RER U	kg kg	0.005693554 0.005638308	0.005943033 0.005676732	-0.000153958 -2.4603E-05	-9.5521E-05 -1.38207E-05
572 Butadiene, at plant/RER U	kg	0.005212751	0.005486222	-0.000221604	-5.18673E-05
573 Disposal, building, cement (in concrete) and mortar, to sorting plant/CH U 574 Copper, primary, at refinery/ID U	kg kg	0.005118338 0.005081225	0.005599832 0.005163749	-0.000306688 -5.02479F-05	-0.000174807 -3.22766E-05
575 Disposal, plastics, mixture, 15.3% water, to municipal incineration/CH U	kg	0.005039366	0.005577533	-0.000340441	-0.000197726
576 Flat glass, coated, at plant/RER U 577 Disposal, lignite ash, 0% water, to opencast refill/AT U	kg ka	0.005024486 0.00500823	0.005569744 0.005517724		-0.000220166 -0.000183073
577 Disposal, lighte ash, 0% water, to opencast refili/AT U 578 Cathodes/AU U	kg kg	0.00500823	0.005517724	-5.81401E-05	-6.30945E-05
579 Disposal, sludge, pig iron production, 8.6% water, to residual material landfill/C	kg ka	0.004737032	0.006560033	-0.001027467	
580 Fluorspar, 97%, at plant/GLO U 581 Disposal, drilling waste, 71.5% water, to residual material landfill/CH U	kg kg	0.004729325 0.004521417	0.004946282 0.006125608	-0.000132946 -0.001009038	
582 Disposal, decarbonising waste, 30% water, to residual material landfill/CH U	kg	0.00430572	0.007051215	-0.001394888	-0.001350607
583 Disposal, dust, unalloyed EAF steel, 15.4% water, to residual material landfill/C 584 Portland slag sand cement, at plant/CH U	kg kg	0.004150677 0.004102495	0.005947648 0.004501387	-0.001048168 -0.000224519	
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585 Vinyl acetate, at plant/RER U	kg	0.003959392	0.004071905	-7.58187E-05 -3.66944E-05
586 Lime, hydrated, loose, at plant/CH U 587 Fugitives - crude refining and storage 00-01/AU U -	kg kg	0.00372869 0.00360924	0.004135756 0.00376915	-0.000249729 -0.000157337 -7.67177E-05 -8.31917E-05
588 Kraft paper, unbleached, at plant/RER U	kg	0.00359799	0.00431918	-0.000403015 -0.000318175
589 Ammonia, partial oxidation, liquid, at plant/RER U	kg	0.003577294	0.003811304	-0.000147763 -8.62463E-05
590 Refractory, fireclay, packed, at plant/DE U 591 Crude palm oil, at plant/MY U	kg kg	0.00350036 0.003497906	0.004457571 0.003522215	-0.000541016 -0.000416195 -1.55813E-05 -8.72858E-06
592 Disposal, building, concrete, not reinforced, to sorting plant/CH U	kg	0.003453555	0.004163247	-0.000538309 -0.000171382
593 Aluminium scrap, new, at plant/RER U	kg	0.00340749	0.003784787	-0.000244052 -0.000133246
594 Aluminium, secondary, from new scrap, at plant/RER U	kg ka	0.003373752 0.003257017	0.003747314 0.003320004	-0.000241635 -0.000131926 -3.87249E-05 -2.42624E-05
595 Ethylene dichloride, at plant/RER U 596 Acetone, liquid, at plant/RER U	kg kg	0.003237017	0.003320004	-3.82391E-05 -2.38949E-05
597 Toluene, liquid, at plant/RER U	kg	0.003242231	0.00330436	-3.82358E-05 -2.38931E-05
598 Styrene, at plant/RER U	kg	0.003242231	0.00330436	-3.82358E-05 -2.38931E-05
599 Ethyl benzene, at plant/RER U	kg ka	0.003242231 0.003241942	0.00330436 0.003303785	-3.82358E-05 -2.38931E-05 -3.79838E-05 -2.38591E-05
600 Vinyl chloride, at plant/RER U 601 Methyl tert-butyl ether, at plant/RER U	kg kg	0.003241942	0.003303765	-0.000281194 -4.28915E-05
602 Refinery gas, at refinery/CH U	kg	0.002955696	0.003687668	-0.000447382 -0.000284589
603 Carbon monoxide, CO, at plant/RER U	kg	0.002909369	0.002977959	-4.43697E-05 -2.422E-05
604 Cast iron, at plant/RER U 605 Wire drawing, copper/RER S	kg kg	0.002844265 0.0028315	0.007258777 0.007755	-0.00366985 -0.000744662 -0.00453125 -0.00039225
606 Fugitive emission oil & gas exploration 00-01/AU U	kg	0.00280386	0.0029457	-6.80596E-05 -7.37802E-05
607 Aluminium sulphate, powder, at plant/RER U	kg	0.002762623	0.002836887	-4.76065E-05 -2.66566E-05
608 Dolomite, at plant/RER U 609 Calcium chloride, CaCl2, at plant/RER U	kg ka	0.00267505 0.002646228	0.004698824 0.00323183	-0.001126174 -0.0008976 -0.000308258 -0.000277344
610 Sodium chlorate, powder, at plant/RER U	kg kg	0.002640226	0.00323103	-6.40746E-05 -3.39542E-05
611 Disposal, wood pole, chrome preserved, 20% water, to municipal incineration/	kg	0.002547443	0.002733925	-0.00013156 -5.49222E-05
612 Hydrogen fluoride, at plant/GLO U	kg	0.00248911	0.002603292	-6.99678E-05 -4.42144E-05
613 Refinery products, at consumer/AU U 614 Ethene fr.Gasoil-Kemcor/AU U	- kg kg	0.002447614 0.002436691	0.006970368 0.006861189	-0.003616605 -0.000906148 -0.003556443 -0.000868054
615 Disposal, municipal solid waste, 22.9% water, to sanitary landfill/CH U	kg	0.002424794	0.002721823	-0.000191289 -0.00010574
616 Husked nuts harvesting, at farm/PH U	kg	0.00239717	0.002413616	-1.05385E-05 -5.90837E-06
617 Phosphoric acid, fertiliser grade, 70% in H2O, at plant/GLO U 618 Sodium hydroxide, 50% in H2O, diaphragm cell, at plant/RER U	kg kg	0.002345873 0.002328657	0.002435711 0.008252577	-5.59528E-05 -3.38857E-05 -0.003012062 -0.002911858
619 Sodium riydroxide, 30 % in 120, diaprilagin cell, at plant/RER U	kg	0.002323037	0.002381304	-3.86943E-05 -1.96989E-05
620 Ammonium sulphate, as N, at regional storehouse/RER U	kg	0.002290918	0.002354503	-4.21617E-05 -2.14231E-05
621 Sodium silicate, spray powder 80%, at plant/RER U	kg	0.002233568	0.002289715	-3.7206E-05 -1.89412E-05
622 Sodium sulphate, powder, production mix, at plant/RER U 623 Phosphoric acid, industrial grade, 85% in H2O, at plant/RER U	kg kg	0.002233425 0.002230637	0.002289634 0.002286659	-3.72641E-05 -1.89449E-05 -3.71222E-05 -1.89001E-05
624 Potassium nitrate, as N, at regional storehouse/RER U	kg	0.002130459	0.002134553	-3.03879E-06 -1.05522E-06
625 Bitumen, at refinery/RER U	kg	0.002106362	0.003441019	-0.000749224 -0.000585433
626 Disposal, hard coal ash, 0% water, to residual material landfill/FR U 627 Disposal, hard coal ash, 0% water, to residual material landfill/IT U	kg ka	0.002039939 0.002001198	0.002244905 0.00219889	-0.000131061 -7.39053E-05 -0.000125614 -7.20775E-05
628 Acetaldehyde, at plant/RER U	kg kg	0.002001198	0.00219889	-1.32624E-06 -5.55069E-07
629 Industrial machine, heavy, unspecified, at plant/RER/I U	kg	0.001910478	0.004474721	-0.001478672 -0.001085571
630 Calcium nitrate, as N, at regional storehouse/RER U	kg	0.001708482	0.001891113	-0.000104269 -7.8362E-05
631 Aluminium scrap, old, at plant/RER U 632 Aluminium, secondary, from old scrap, at plant/RER U	kg kg	0.001674653 0.001625877	0.001861228 0.001807017	-0.000120748 -6.58268E-05 -0.000117231 -6.39095E-05
633 Phosphoric acid, fertiliser grade, 70% in H2O, at plant/US U	kg	0.001023077	0.001534498	-3.52503E-05 -2.1348E-05
634 Disposal, hard coal ash, 0% water, to residual material landfill/NL U	kg	0.001394762	0.001534777	-8.87089E-05 -5.1306E-05
635 Potato grading/CH U	kg	0.001369409	0.001529587	-9.22012E-05 -6.79772E-05
636 Disposal, hard coal ash, 0% water, to residual material landfill/HR U 637 Sodium sulphate, from natural sources, at plant/RER U	kg kg	0.001360805 0.001340055	0.001495112 0.00137378	-8.53147E-05 -4.89917E-05 -2.23584E-05 -1.1367E-05
638 Gravel, unspecified, at mine/CH U	kg	0.001305096	0.00228042	-0.000601171 -0.000374154
639 Potatoes IP, at farm/CH U	kg	0.00127093	0.001419589	-8.55707E-05 -6.30888E-05
640 Methanol, at regional storage/CH U 641 Phosphate rock, as P2O5, beneficiated, wet, at plant/US U	kg	0.001150704 0.001114603	0.001291914 0.001157289	-0.000115821 -2.53886E-05 -2.65851E-05 -1.61003E-05
642 Disposal, lignite ash, 0% water, to opencast refill/FR U	kg kg	0.001114003	0.001137289	-7.13606E-05 -4.02482E-05
643 Disposal, hard coal ash, 0% water, to residual material landfill/BE U	kg	0.001092946	0.001200953	-6.85965E-05 -3.94103E-05
644 Crude oil, used in drilling tests/GLO U	kg	0.001024123	0.001412083	-0.000240828 -0.000147132
645 Sodium chloride, brine solution, at plant/RER U 646 Phenolic resin, at plant/RER U	kg kg	0.001002057 0.001001334	0.001104389 0.001040981	-6.56069E-05 -3.67251E-05 -2.37845E-05 -1.58622E-05
647 Disposal, paint remains, 0% water, to hazardous waste incineration/CH U	kg	0.000987177	0.000988847	-1.13906E-06 -5.30391E-07
648 Phosphoric acid, fertiliser grade, 70% in H2O, at plant/MA U	kg	0.000941856	0.000989324	-3.38988E-05 -1.35691E-05
649 Disposal, hard coal ash, 0% water, to residual material landfill/PT U 650 Disposal, refractory SPL, Al elec.lysis, 0% water, to residual material landfill/CI	kg kg	0.00094157 0.000940854	0.00103449 0.000999451	-5.90257E-05 -3.38951E-05 -3.56239E-05 -2.29732E-05
651 Disposal, polyethylene, 0.4% water, to municipal incineration/CH U	kg	0.000940834	0.000999431	-9.09909E-05 -5.62643E-05
652 Ammonia, liquid, at regional storehouse/CH U	kg	0.000891787	0.00098806	-6.77427E-05 -2.85309E-05
653 Grain drying, low temperature/CH U	kg	0.000866801	0.001033911	-0.000155107 -1.20034E-05
654 Quicklime, milled, packed, at plant/CH U 655 Disposal, residue from cooling tower, 30% water, to sanitary landfill/CH U	kg kg	0.000825197 0.000823663	0.000940328 0.000947969	-7.735E-05 -3.77805E-05 -7.3772E-05 -5.05341E-05
656 Paper, woodcontaining, LWC, at plant/RER U	kg	0.000812378	0.000898122	-4.96709E-05 -3.60737E-05
657 Crude coco nut oil, at plant/PH U	kg	0.000807128	0.000812665	-3.5483E-06 -1.98935E-06
658 Disposal, H3PO4 purification residue, 0% water, to residual material landfill/CF 659 Phosphate rock, as P2O5, beneficiated, dry, at plant/MA U	kg kg	0.000785184 0.00076685	0.000804904 0.000815513	-1.3067E-05 -6.65283E-06 -3.76512E-05 -1.10125E-05
660 Silicon carbide, at plant/RER U	kg	0.000744306	0.000744762	-3.68027E-07 -8.84382E-08
661 Hydrogen cyanide, at plant/RER U	kg	0.000742047	0.000746636	-3.05145E-06 -1.53734E-06
662 Argon, crude, liquid, at plant/RER U 663 Fugitives - fuel distribution /AU U -	kg kg	0.000693106 0.000679718	0.000760031 0.002128793	-4.28898E-05 -2.4035E-05 -0.000842295 -0.00060678
664 Aluminium fluoride, at plant/RER U	kg	0.000676478	0.000699563	-1.50865E-05 -7.99795E-06
665 Argon, liquid, at plant/RER U	kg	0.000672918	0.000737894	-4.16406E-05 -2.33349E-05
666 Cathode, aluminium electrolysis/RER U 667 Sulphate pulp, unbleached, at plant/RER U	kg kg	0.000654773 0.000643649	0.000677117 0.000688011	-1.46024E-05 -7.74133E-06 -3.36556E-05 -1.07058E-05
668 Waste paper, mixed, from public collection, for further treatment/CH U	kg	0.000634959	0.000678131	-3.28967E-05 -1.02756E-05
669 Disposal, bilge oil, 90% water, to hazardous waste incineration/CH U	kg	0.000593392	0.000766361	-0.000101243 -7.1727E-05
670 Protein peas, IP, at farm/CH U 671 Pea seed IP, at regional storehouse/CH U	kg ka	0.00056655	0.000675777 0.000675777	-0.000101383 -7.8442E-06 -0.000101383 -7.8442E-06
671 Pea seed IP, at regional storehouse/CH U 672 Disposal, salt tailings potash mining, 0% water, to residual material landfill/CH	kg kg	0.00056655 0.000565129	0.000675777	-0.000101383 -7.8442E-06 -9.95485E-05 -8.33128E-06
673 Disposal, catalytic converter NOx reduction, 0% water, to underground deposit	kg	0.000536623	0.000590429	-3.42687E-05 -1.95374E-05
674 Disposal, building, reinforcement steel, to sorting plant/CH U	kg ka	0.000517877	0.000523186	-3.29966E-06 -2.00933E-06
675 Disposal, lignite ash, 0% water, to opencast refill/CZ U 676 Disposal, lignite ash, 0% water, to opencast refill/HU U	kg kg	0.000505962 0.000476093	0.000582209 0.000536315	-4.5722E-05 -3.05248E-05 -3.67556E-05 -2.34657E-05
677 Manganese, concentrate, at beneficiation/GLO U	kg	0.000473389	0.00096646	-0.0003792 -0.00011387
678 Brazing solder, cadmium free, at plant/RER U	kg	0.000471779	0.000680783	-0.000162298 -4.67047E-05
679 Sodium hypochlorite, 15% in H2O, at plant/RER U 680 Disposal, electronics for control units/RER U	kg kg	0.000462032 0.000454099	0.000522188 0.000632314	-3.95427E-05 -2.0613E-05 -0.000138485 -3.97297E-05
681 Uranium natural, at mine/GLO U	kg	0.000434099	0.000463844	-2.75549E-05 -1.54245E-05
682 Uranium natural, in yellowcake, at mill plant/RNA U	kg	0.000400823	0.000441756	-2.62428E-05 -1.469E-05
683 Uranium natural, in uranium hexafluoride, at conversion plant/US U	kg ka	0.000400823	0.000441756	-2.62428E-05 -1.469E-05
684 Fibre cement facing tile, at plant/CH U 685 Calcium chloride, CaCl2, at regional storage/CH U	kg kg	0.000389078 0.000385009	0.000429949 0.000907224	-2.69518E-05 -1.39193E-05 -0.000266081 -0.000256134
686 Disposal, refinery sludge, 89.5% water, to hazardous waste incineration/CH U	kg	0.000359822	0.000307224	-6.06951E-05 -2.7511E-05
687 Paraffin, at plant/RER U	kg	0.000358953	0.000376305	-1.18021E-05 -5.54948E-06
688 Waste paper, mixed, from public collection, for further treatment/RER U 689 Acrylic dispersion, 65% in H2O, at plant/RER U	kg kg	0.000356975 0.000355482	0.00040666 0.000390987	-2.90571E-05 -2.06282E-05 -2.2098E-05 -1.34061E-05
690 Sodium sulphate, from Mannheim process, at plant/RER U	kg	0.000335462	0.000390987	-5.58961E-06 -2.84174E-06
691 Disposal, hazardous waste, 25% water, to hazardous waste incineration/CH U	kg	0.000331435	0.000458326	-7.68997E-05 -4.99914E-05
692 Sodium cyanide, at plant/RER U	kg	0.000326588	0.000333742	-4.65772E-06 -2.49619E-06
693 Potato starch, at plant/DE U 694 Disposal, refinery sludge, 89.5% water, to sanitary landfill/CH U	kg kg	0.000324217 0.000320987	0.00036214 0.000399206	-2.18292E-05 -1.60941E-05 -5.42361E-05 -2.39826E-05
695 Fugitives - gas production 2001-02/AU U	kg	0.000316266	0.00552069	-0.002662234 -0.00254219
696 Kaolin, at plant/RER U	kg	0.00027537	0.000308428	-2.01072E-05 -1.29507E-05
697 Acrylic binder, 34% in H2O, at plant/RER U 698 Hard coal supply mix/CZ U	kg kg	0.000273125 0.000272864	0.000297492 0.000313984	-1.60472E-05 -8.32057E-06 -2.46578E-05 -1.6462E-05
699 Disposal, wood untreated, 20% water, to sanitary landfill/CH U	kg	0.000272864	0.000313964	-1.84738E-05 -1.09359E-05
700 Disposal, hard coal ash, 0% water, to residual material landfill/AT U	kg	0.00025546	0.000281284	-1.65463E-05 -9.27831E-06
701 Molybdenite, at plant/GLO U 702 Uranium natural, at underground mine/RNA U	kg ka	0.000252645 0.000252518	0.000520148 0.000278306	-0.000205966 -6.15364E-05 -1.65329E-05 -9.25471E-06
702 Oranium natural, at underground mine/RNA O 703 Disposal, separator sludge, 90% water, to hazardous waste incineration/CH U	kg kg	0.000252518	0.000278306	-3.52448E-05 -1.37734E-05

704 Ozone, liquid, at plant/RER U 705 Kerosene, at regional storage/RER U	kg kg	0.000245244 0.000243513	0.000247623 0.000284114	-1.47535E-06 -2.22926E-05	
706 Kerosene, at refinery/RER U	kg	0.000243513	0.000284114	-2.22926E-05	
707 Disposal, bitumen, 1.4% water, to sanitary landfill/CH U	kg	0.000223876	0.000321822	-5.80335E-05	
708 Sheet rolling, chromium steel/RER U 709 Sulphate pulp, average, at regional storage/RER U	kg kg	0.000223037 0.000212712	0.000245549 0.000240582	-1.43067E-05 -1.78733E-05	
710 Corrugated board, mixed fibre, single wall, at plant/RER U	kg	0.000209047	0.000242545	-1.95243E-05	
711 Ferromanganese, high-coal, 74.5% Mn, at regional storage/RER U 712 Disposal, pollutants from rail ballast, 0% water, to residual material landfill/CH	kg kg	0.000202699 0.000199842	0.000414266 0.000228417	-0.000162713 -1.98348E-05	
713 Acrylic varnish, 87.5% in H2O, at plant/RER U	kg	0.000188634	0.000201652	-9.86378E-06	
714 Polyethylene terephthalate, granulate, amorphous, at plant/RER U	kg	0.000187627	0.000187995	-2.71784E-07	
715 Disposal, building, mineral wool, to sorting plant/CH U 716 Disposal, building, bitumen sheet, to final disposal/CH U	kg kg	0.000174852 0.000173918	0.000214905 0.000185341	-2.31345E-05 -7.70755E-06	
717 Disposal, bitumen sheet, 1.5% water, to municipal incineration/CH U	kg	0.000173918	0.000185341	-7.70755E-06	-3.71482E-06
718 Sulphate pulp, ECF bleached, at plant/RER U 719 Uranium natural, at open pit mine/RNA U	kg kg	0.000173686 0.000168346	0.000196397 0.000185537	-1.45431E-05	-8.16694E-06 -6.16981E-06
720 Disposal, building, concrete gravel, to sorting plant/CH U	kg	0.000167687	0.000186024	-1.14957E-05	
721 Lime, hydrated, packed, at plant/CH U	kg	0.000165752	0.000293519	-7.4072E-05	
722 Iron (III) chloride, 40% in H2O, at plant/CH U 723 Uranium, enriched 3.8%, at EURODIF enrichment plant/FR U	kg kg	0.000165488 0.000164365	0.00018472 0.000181125	-1.15731E-05 -1.07371E-05	
724 Purified terephthalic acid, at plant/RER U	kg	0.000164174	0.000164496	-2.37811E-07	
725 Uranium, enriched 3.8% for pressure water reactor/FR U 726 Nylon 66, glass-filled, at plant/RER U	kg	0.00016181 0.000157086	0.00017823 0.000172944	-1.04992E-05 -1.00773E-05	
727 Disposal, lignite ash, 0% water, to opencast refill/SK U	kg kg	0.000157686	0.000172944	-1.00773E-05	
728 Disposal, glass, 0% water, to municipal incineration/CH U	kg	0.000154137	0.000200611	-3.34875E-05	
729 Glass fibre reinforced plastic, polyamide, injection moulding, at plant/RER U 730 Disposal, plastic, industr. electronics, 15.3% water, to municipal incineration/C	kg kg	0.000149605 0.000146355	0.000164708 0.000203491	-9.59743E-06 -4.43845E-05	-5.5054E-06 -1.2752E-05
731 Molybdenum, molybdenite concentrate, couple production Cu/GLO U	kg	0.000146282	0.000301166	-0.000119254	-3.56296E-05
732 Core board, at plant/RER U 733 Injection moulding/RER U	kg	0.000145942	0.000163252	-1.02153E-05	
733 Injection moduling/RER U 734 Waste paper, sorted, for further treatment/RER U	kg kg	0.000145184 0.000142077	0.00016519 0.000159244	-1.4155E-05 -1.00951E-05	-7.0713E-06
735 Iron sulphate, at plant/RER U	kg	0.00014017	0.000184213	-2.74174E-05	
736 Potassium chloride, as K2O, at regional storehouse/RER U 737 Chlorine, gaseous, mercury cell, at plant/RER U	kg kg	0.000123391 0.000122983	0.000146945 0.020250352	-2.17355E-05 -0.010140342	
738 Molybdenum, molybdenite concentrate, main product/GLO U	kg	0.000106364	0.000218982	-8.67117E-05	
739 Ammonium bicarbonate, at plant/RER U	kg	0.000101916	0.000112095	-6.33544E-06	-3.8435E-06
740 Disposal, building, polyethylene/polypropylene products, to final disposal/CH U 741 Disposal, glass, 0% water, to inert material landfill/CH U	kg kg	0.000101028 9.84841E-05	0.00011939 0.000109172	-1.11594E-05 -6.37209E-06	-4.3154E-06
742 Potato seed IP, at regional storehouse/CH U	kg	9.84789E-05	0.000109998		-4.88848E-06
743 Potato seed IP, at farm/CH U 744 Disposal, filter dust Al electrolysis, 0% water, to residual material landfill/CH U	kg kg	9.84789E-05 9.35007E-05	0.000109998 9.83259E-05	-6.6305E-06 -3.13852E-06	-4.88848E-06
745 Paper, woodfree, coated, at integrated mill/RER U	kg	9.29431E-05	0.000109389	-1.15902E-05	
746 Fatty acids, from vegetarian oil, at plant/RER U	kg	9.07093E-05	9.1472E-05	-4.97992E-07	
747 Corrugated board base paper, wellenstoff, at plant/RER U 748 Disposal, plastics, mixture, 15.3% water, to sanitary landfill/CH U	kg kg	9.05173E-05 8.92715E-05	0.000105022 0.000102051	-8.45404E-06 -8.76317E-06	
749 Rape seed IP, at farm/CH U	kg	8.77345E-05	0.000104598	-1.56241E-05	
750 Refractory, high aluminium oxide, packed, at plant/DE U	kg	8.43502E-05 8.42882E-05	9.21976E-05 9.04529E-05	-5.06862E-06 -4.34833E-06	
751 Wood preservative, inorganic salt, containing Cr, at plant/RER U 752 Hydrogen peroxide, 50% in H2O, at plant/RER U	kg kg	8.24618E-05	8.72688E-05	-3.31801E-06	
753 Disposal, asphalt, 0.1% water, to sanitary landfill/CH U	kg	8.0469E-05	0.000105503	-1.74337E-05	
754 Sheet rolling, aluminium/RER U 755 Triple superphosphate, as P2O5, at regional storehouse/RER U	kg kg	7.90135E-05 7.61118E-05	8.69582E-05 9.07769E-05	-4.93862E-06 -1.36069E-05	
756 Chlorine, liquid, production mix, at plant/RER U	kg	7.54321E-05	0.036587059	-0.018393191	
757 Disposal, packaging cardboard, 19.6% water, to municipal incineration/CH U	kg	7.29911E-05	8.07102E-05	-4.55443E-06	
758 Cryolite, at plant/RER U 759 Carbon dioxide liquid, at plant/RER U	kg kg	7.23506E-05 6.40515E-05	7.48195E-05 7.04833E-05	-1.61353E-06 -4.01404E-06	
760 Corrugated board base paper, kraftliner, at plant/RER U	kg	6.25302E-05	7.25466E-05	-5.83793E-06	-4.1784E-06
761 Corrugated board base paper, testliner, at plant/RER U 762 Plaster mixing/CH U	kg kg	6.2505E-05 5.72641E-05	7.25211E-05 5.91955E-05	-5.83778E-06 -1.12104E-06	-4.1783E-06
763 Uranium, enriched 4.0% for pressure water reactor/DE U	kg	5.58919E-05	6.15201E-05	-3.58472E-06	
764 Disposal, emulsion paint, 0% water, to municipal incineration/CH U	kg	5.32401E-05	8.65656E-05	-2.46635E-05	
765 Packaging, corrugated board, mixed fibre, single wall, at plant/RER U 766 Rape seed IP, at regional storehouse/CH U	kg kg	5.1117E-05 5.0134E-05	7.11021E-05 5.97703E-05	-1.14746E-05 -8.92808E-06	-8.51053E-06 -7.0821E-07
767 Nuclear spent fuel, in reprocessing, at plant/RER U	kg	4.6157E-05	5.0843E-05	-2.99782E-06	-1.68815E-06
768 Petrol, unleaded, at regional storage/CH U 769 Disposal, sludge from pulp and paper production, 25% water, to sanitary landfi	kg kg	4.30234E-05 4.11451E-05	6.29455E-05 4.92437E-05	-1.43625E-05 -4.57054E-06	
770 Calcium ammonium nitrate, as N, at regional storehouse/RER U	kg	4.01051E-05	4.77899E-05	-7.10643E-06	
771 Disposal, catalyst base Eth.oxide prod., 0% water, to residual material landfill/(kg	3.99781E-05	4.00448E-05	-4.11106E-08	
772 Uranium, enriched 3.9% for pressure water reactor/UCTE U 773 Malusil, at plant/RER U	kg kg	3.90551E-05 3.89117E-05	4.291E-05 4.40339E-05	-2.44546E-06 -2.92632E-06	-1.4094E-06 -2.19585E-06
774 Tin, at regional storage/RER U	kg	3.85778E-05	4.32289E-05	-3.25917E-06	-1.39192E-06
775 Anhydrite, at plant/CH U 776 Tractor, production/CH/I U	kg kg	3.85362E-05 3.85183E-05	3.9836E-05 4.57745E-05	-7.54409E-07 -6.67343E-06	
777 Disposal, lignite ash, 0% water, to opencast refill/PL U	kg	3.77286E-05	6.82483E-05	-1.61541E-05	
778 Sulphur dioxide, liquid, at plant/RER U	kg	3.68476E-05	4.49549E-05	-4.48609E-06	
779 Uranium, enriched 4.0%, at URENCO enrichment plant/RER U 780 Disposal, hard coal ash, 0% water, to residual material landfill/CZ U	kg kg	3.65916E-05 3.47117E-05	4.02735E-05 3.99427E-05	-2.34476E-06 -3.13678E-06	
781 Anhydrite rock, at mine/CH U	kg	3.46826E-05	3.58524E-05	-6.78968E-07	
782 Esters of versatic acid, at plant/RER U 783 Platinum, at regional storage/RER U	kg kg	3.41406E-05 3.41148E-05	3.71865E-05 3.4115E-05	-2.0059E-06 -7.99801E-11	-1.04007E-06
784 Fuel elements PWR, UO2 3.8% & MOX, at nuclear fuel fabrication plant/FR U	kg	3.38586E-05	3.72944E-05	-2.19695E-06	
785 Chlorine, gaseous, membrane cell, at plant/RER U	kg	3.36842E-05	0.007849211		-0.003878157
786 Sulphate pulp, TCF bleached, at plant/RER U 787 Pentane, at plant/RER U	kg kg	3.26805E-05 3.22378E-05	3.69521E-05 3.83307E-05	-2.73479E-06 -5.65335E-06	
788 Harvester, production/CH/I U	kg	3.14581E-05	3.75227E-05	-5.6288E-06	-4.35857E-07
789 U enriched 3.8%, in fuel element for LWR, at nuclear fuel fabrication plant/FR 790 Propylene glycol, liquid, at plant/RER U	kg kg	3.04728E-05 2.94189E-05	3.3565E-05 4.78498E-05	-1.97726E-06 -1.3729E-05	
791 Bronze, at plant/CH U	kg	2.82862E-05	6.62376E-05	-2.18848E-05	
792 Latex, at plant/RER U	kg	2.77658E-05	3.09726E-05	-1.94256E-06 -9.47021E-09	
793 Kraft paper, bleached, at plant/RER U 794 Agricultural machinery, tillage, production/CH/I U	kg kg	2.65856E-05 2.62528E-05	2.65962E-05 3.12786E-05	-9.47021E-09 -4.64524E-06	
795 Platinum, primary, at refinery/ZA U	kg	2.53473E-05	2.53474E-05	-5.94252E-11	-2.11687E-11
796 Disposal, emulsion paint remains, 0% water, to hazardous waste incineration/C 797 Agricultural machinery, general, production/CH/I U	kg kg	2.52153E-05 2.47408E-05	2.80401E-05 2.93701E-05	-1.88975E-06 -4.22013E-06	
798 Brass, at plant/CH U	kg	2.40157E-05	4.1028E-05	-1.24961E-05	
799 Uranium, enriched 3.9%, at EURODIF enrichment plant/FR U	kg	2.38236E-05	2.61751E-05	-1.49173E-06	
800 Butyl acrylate, at plant/RER U 801 Propylene oxide, liquid, at plant/RER U	kg kg	2.3766E-05 2.36234E-05	2.59243E-05 3.84234E-05	-1.40847E-06 -1.10244E-05	
802 Disposal, zinc in car shredder residue, 0% water, to municipal incineration/CH	kg	2.36084E-05	3.97139E-05	-1.19846E-05	-4.12091E-06
803 Crude palm kernel oil, at plant/MY U 804 Disposal, building, electric wiring, to final disposal/CH U	kg kg	2.3403E-05 2.23417E-05	2.35998E-05 3.11098E-05	-1.28482E-07 -6.81346E-06	-6.82769E-08 -1.9547E-06
805 Disposal, solvents mixture, 16.5% water, to hazardous waste incineration/CH l	kg	2.00555E-05	2.16844E-05	-9.73485E-07	-6.55425E-07
806 Solid bleached board, SBB, at plant/RER U	kg	1.95383E-05	2.18397E-05	-1.35848E-06	
807 Sodium dithionite, anhydrous, at plant/RER U 808 Chlorine, gaseous, diaphragm cell, at plant/RER U	kg kg	1.87918E-05 1.77266E-05	2.24248E-05 0.008597959	-2.0338E-06 -0.0043224	-1.5992E-06 -0.004257832
809 Paper, woodfree, uncoated, at regional storage/RER U	kg	1.74994E-05	3.02509E-05	-9.61885E-06	-3.13264E-06
810 Aluminium, production mix, cast alloy, at plant/RER U 811 Isopropanol, at plant/RER U	kg kg	1.74244E-05 1.59033E-05	3.00871E-05 1.65815E-05	-8.7741E-06 -5.11915E-07	-3.88856E-06 -1.66325E-07
812 Butanol, 1-, at plant/RER U	kg	1.56662E-05	1.73653E-05	-1.16869E-06	
813 Vermiculite, at mine/ZA U 814 Zeolite, powder, at plant/RER U	kg ka	1.43754E-05 1.43122E-05	1.45142E-05	-8.60339E-08 -2.08106E-06	
814 Zeolite, powder, at plant/RER U 815 Acrylic acid, at plant/RER U	kg kg	1.43122E-05 1.4022E-05	1.73006E-05 1.52953E-05	-2.08106E-06 -8.30999E-07	
816 Disposal, wire plastic, 3.55% water, to municipal incineration/CH U	kg	1.37401E-05	1.91325E-05	-4.19028E-06	-1.20214E-06
817 Alkyd paint, white, 60% in H2O, at plant/RER U 818 Expanded vermiculite, at plant/CH U	kg kg	1.36477E-05 1.261E-05	2.43758E-05 1.27317E-05	-8.16619E-06 -7.54684E-08	
819 Polyurethane, rigid foam, at plant/RER U	kg	1.23697E-05	1.24893E-05	-7.41212E-08	-4.54051E-08
820 Bitumen sealing, at plant/RER U 821 Uranium, enriched 3.9% at URENCO enrichment plant/RER U	kg ka	1.23697E-05 1.21071E-05	1.24893E-05 1.33021E-05	-7.41212E-08 -7.58092E-07	
821 Oranium, enriched 3.9% at ORENCO enrichment plant/RER U 822 Rosin size, in paper production, at plant/RER U	kg kg	1.21071E-05 1.19905E-05	1.43031E-05	-7.58092E-07 -1.29683E-06	

823 Metolachlor, at regional storehouse/CH U 824 Sulphur hexafluoride, liquid, at plant/RER U	kg kg	1.19523E-05 1.16795E-05	1.42566E-05 1.23838E-05	-2.1388E-06 -1.6551E-07 -4.87098E-07 -2.17193E-07
825 Petrol, unleaded, at refinery/CH U	kg	1.16594E-05	1.70582E-05	-3.89223E-06 -1.50665E-06
826 Disposal, ash from paper prod. sludge, 0% water, to residual material landfill/C	kg	1.15826E-05	1.38624E-05	-1.28668E-06 -9.9313E-07
827 Uranium, enriched 4.0%, at EURODIF enrichment plant/FR U 828 Nuclear spent fuel, in conditioning, at plant/CH U	kg kg	9.98076E-06 9.95347E-06	1.09804E-05 1.09905E-05	-6.36003E-07 -3.63621E-07 -6.69572E-07 -3.67423E-07
829 U enriched 4.0%, in fuel element for LWR, at nuclear fuel fabrication plant/DE	kg	9.77131E-06	1.07553E-05	-6.26699E-07 -3.57249E-07
830 Thomas meal, as P2O5, at regional storehouse/RER U 831 Tempering, flat glass/RER U	kg kg	9.62134E-06 9.18517E-06	1.14752E-05 1.01354E-05	-1.72006E-06 -1.33772E-07 -6.11386E-07 -3.38822E-07
832 Solar glass, low-iron, at regional storage/RER U	kg	9.18517E-06	1.01354E-05	-6.11386E-07 -3.38822E-07
833 Fluorine, liquid, at plant/RER U	kg	9.12168E-06	9.67174E-06	-3.80424E-07 -1.69628E-07
834 Paper, woodfree, uncoated, at non-integrated mill/RER U 835 Paper, woodfree, uncoated, at integrated mill/RER U	kg kg	8.74972E-06 8.74972E-06	1.51255E-05 1.51255E-05	-4.80942E-06 -1.56632E-06 -4.80942E-06 -1.56632E-06
836 Ethylenediamine, at plant/RER U	kg	8.71389E-06	9.37539E-06	-4.28365E-07 -2.33139E-07
837 Disposal, copper, 0% water, to municipal incineration/CH U 838 Fuel elements PWR, UO2 3.9% & MOX, at nuclear fuel fabrication plant/UCTE	kg kg	8.60154E-06 8.13242E-06	1.19773E-05 8.93512E-06	-2.62318E-06 -7.52561E-07 -5.09216E-07 -2.93477E-07
839 Fuel elements PWR, UO2 4.0% & MOX, at nuclear fuel fabrication plant/DE U	kg	7.93039E-06	8.72896E-06	-5.08629E-07 -2.89943E-07
840 Cationic resin, at plant/CH U	kg	7.6515E-06	8.10888E-06	-3.20402E-07 -1.36985E-07
841 Methylene diphenyl diisocyanate, at plant/RER U 842 Potassium sulphate, as K2O, at regional storehouse/RER U	kg kg	7.61976E-06 7.57806E-06	7.69339E-06 9.02468E-06	-4.56586E-08 -2.79695E-08 -1.33492E-06 -1.11708E-07
843 Uranium, enriched 4.0%, at TENEX enrichment plant/RU U	kg	7.44397E-06	8.1932E-06	-4.77161E-07 -2.72075E-07
844 U enriched 3.9%, in fuel element for LWR, at nuclear fuel fabrication plant/UC7	kg	7.07521E-06	7.77355E-06 7.0618E-06	-4.43018E-07 -2.55325E-07 -1.65559E-11 -5.8976E-12
845 Platinum, primary, at refinery/RU U 846 Grain maize IP, at farm/CH U	kg kg	7.06177E-06 6.90105E-06	8.00691E-06	-1.65559E-11 -5.8976E-12 -6.44537E-07 -4.61318E-07
847 Uranium, enriched 4.0%, at USEC enrichment plant/US U	kg	6.88505E-06	7.578E-06	-4.41313E-07 -2.5164E-07
848 Aluminium, production mix, wrought alloy, at plant/RER U 849 Palladium, at regional storage/RER U	kg kg	6.8468E-06 6.40612E-06	7.58096E-06 6.40861E-06	-4.46902E-07 -2.87257E-07 -1.92459E-09 -5.65835E-10
850 Hard coal supply mix/SK U	kg	6.39405E-06	1.25581E-05	-3.24658E-06 -2.91749E-06
851 MOX fuel element for LWR, at nuclear fuel fabrication plant/UCTE U	kg	6.12004E-06	6.73942E-06	-3.95752E-07 -2.23631E-07
852 Disposal, anion exchange resin f. water, 50% water, to municipal incineration/(853 Disposal, antifreezer liquid, 51.8% water, to hazardous waste incineration/CH	kg kg	6.01487E-06 5.85956E-06	6.48006E-06 1.14215E-05	-3.09943E-07 -1.55249E-07 -3.08467E-06 -2.47729E-06
854 Uranium, enriched 4.2% for pressure water reactor/CH U	kg	5.84325E-06	6.62311E-06	-5.44162E-07 -2.35693E-07
855 Disposal, green liquor dregs, 25% water, to residual material landfill/CH U 856 Maize starch, at plant/DE U	kg kg	5.58521E-06 5.47703E-06	6.02655E-06 6.35469E-06	-3.20723E-07 -1.20623E-07 -5.11538E-07 -3.66126E-07
857 Anionic resin, at plant/CH U	kg	5.38892E-06	5.79656E-06	-2.74603E-07 -1.33039E-07
858 Disposal, sludge, NaCl electrolysis, 0% water, to residual material landfill/CH L	kg	5.34495E-06	0.000202744	-9.98128E-05 -9.75866E-05
859 Uranium enriched 3.8%, for boiling water reactor/CH U 860 Polyols, at plant/RER U	kg kg	4.91201E-06 4.77878E-06	5.56758E-06 4.82546E-06	-4.57439E-07 -1.98131E-07 -2.89884E-08 -1.76899E-08
861 Polystyrene, general purpose, GPPS, at plant/RER U	kg	4.67755E-06	4.93686E-06	-1.78015E-07 -8.12902E-08
862 Disposal, limestone residue, 5% water, to inert material landfill/CH U	kg	4.50828E-06	4.92987E-06	-2.90508E-07 -1.31085E-07
863 Uranium, enriched 4.0% for boiling water reactor/UCTE U 864 Palladium, primary, at refinery/RU U	kg kg	4.45052E-06 4.38819E-06	4.8898E-06 4.3899E-06	-2.78672E-07 -1.60607E-07 -1.31834E-09 -3.87597E-10
865 Disposal, building, waste wood, chrome preserved, to final disposal/CH U	kg	4.33627E-06	5.12394E-06	-7.24266E-07 -6.3402E-08
866 Disposal, building wood, chrome preserved, 20% water, to municipal incinerati 867 Solvents, organic, unspecified, at plant/GLO U	kg ka	4.33627E-06 4.32983E-06	5.12394E-06 8.61891E-06	-7.24266E-07 -6.3402E-08 -3.77898E-06 -5.10096E-07
868 Disposal, cation exchange resin f. water, 50% water, to municipal incineration/	kg kg	4.13589E-06	4.22683E-06	-8.37192E-08 -7.21407E-09
869 Disposal, dross from Al electrolysis, 0% water, to residual material landfill/CH l	kg	3.97928E-06	4.11507E-06	-8.87439E-08 -4.70468E-08
870 Calcium borates, at plant/TR U 871 Anhydrite, burned, at plant/CH U	kg kg	3.93168E-06 3.85362E-06	5.15293E-06 3.9836E-06	-7.6774E-07 -4.53512E-07 -7.54409E-08 -5.45319E-08
872 Uranium, enriched 4.2%, at EURODIF enrichment plant/FR U	kg	3.50595E-06	3.97386E-06	-3.26497E-07 -1.41416E-07
873 Fuel elements BWR, UO2 4.0% & MOX, at nuclear fuel fabrication plant/DE U	kg	3.3672E-06	3.70627E-06	-2.15961E-07 -1.23108E-07
874 Glass fibre, at plant/RER U 875 Single superphosphate, as P2O5, at regional storehouse/RER U	kg kg	3.11718E-06 3.07396E-06	5.65185E-06 3.66625E-06	-1.58462E-06 -9.50044E-07 -5.49552E-07 -4.27388E-08
876 Slurry tanker, production/CH/I U	kg	2.96059E-06	3.71313E-06	-6.53431E-07 -9.91143E-08
877 Grain drying, high temperature/CH U	kg	2.82943E-06	3.28283E-06	-2.6426E-07 -1.89141E-07
878 Gypsum, mineral, at mine/CH U 879 Uranium, enriched 4.2%, at URENCO enrichment plant/RER U	kg kg	2.708E-06 2.3373E-06	1.00268E-05 2.64924E-06	-5.76685E-06 -1.55194E-06 -2.17665E-07 -9.42773E-08
880 Disposal, textiles, soiled, 25% water, to municipal incineration/CH U	kg	2.29557E-06	2.75135E-06	-2.61964E-07 -1.93818E-07
881 Carboxymethyl cellulose, powder, at plant/RER U 882 Boric acid, anhydrous, powder, at plant/RER U	kg kg	2.26834E-06 1.99038E-06	2.5225E-06 2.60975E-06	-1.51784E-07 -1.02378E-07 -3.89357E-07 -2.3001E-07
883 Aluminium alloy, AlMg3, at plant/RER U	kg	1.90258E-06	2.09897E-06	-1.2626E-07 -7.01327E-08
884 Acetylene, at regional storehouse/CH U	kg	1.85172E-06	2.04712E-06	-1.20283E-07 -7.51172E-08
885 Palladium, primary, at refinery/ZA U 886 Platinum, secondary, at refinery/RER U	kg kg	1.82574E-06 1.70574E-06	1.82645E-06 1.70575E-06	-5.48508E-10 -1.61263E-10 -3.999E-12 -1.42454E-12
887 Linuron, at regional storehouse/CH U	kg	1.65292E-06	1.97159E-06	-2.95786E-07 -2.28856E-08
888 Uranium, enriched 3.9%, at USEC enrichment plant/US U 889 Uranium, enriched 3.9%, at TENEX enrichment plant/RU U	kg kg	1.56221E-06 1.56221E-06	1.7164E-06 1.7164E-06	-9.78183E-08 -5.63759E-08 -9.78183E-08 -5.63759E-08
890 Manganese, at regional storage/RER U	kg	1.11884E-06	1.24088E-06	-8.02971E-08 -4.17438E-08
891 Pigments, paper production, unspecified, at plant/RER U	kg	1.10279E-06	1.26445E-06	-1.15079E-07 -4.65797E-08
892 Magnesium sulphate, at plant/RER U 893 Fuel elements PWR, UO2 4.2% & MOX, at nuclear fuel fabrication plant/CH U	kg kg	1.0387E-06 1.0378E-06	1.19664E-06 1.17631E-06	-1.05058E-07 -5.2876E-08 -9.66471E-08 -4.18608E-08
894 Chloromethyl methyl ether, at plant/RER U	kg	1.03467E-06	1.11294E-06	-5.27237E-08 -2.55434E-08
895 CZ-monocrystalline-silicon, at plant/RER U	kg	1.00257E-06	1.10466E-06	-6.52962E-08 -3.67962E-08
896 Disposal, sludge from FeCl3 production, 30% water, to underground deposit/D 897 Uranium, enriched 3.8%, at URENCO enrichment plant/RER U	kg kg	9.92928E-07 9.82402E-07	1.10832E-06 1.11352E-06	-6.94385E-08 -4.59562E-08 -9.14877E-08 -3.96261E-08
898 U enriched 4.2%, in fuel element for LWR, at nuclear fuel fabrication plant/CH	kg	9.5478E-07	1.08221E-06	-8.89153E-08 -3.85119E-08
899 U enriched 3.8%, in fuel element for LWR, at nuclear fuel fabrication plant/CH 900 Pesticide unspecified, at regional storehouse/CH U	kg kg	9.25049E-07 9.13718E-07	1.04851E-06 1.08987E-06	-8.61466E-08 -3.73127E-08 -1.63502E-07 -1.2653E-08
901 Ethylene vinyl acetate copolymer, at plant/RER U	kg	9.043E-07	9.9785E-07	-6.01923E-08 -3.33577E-08
902 Disposal, aluminium, 0% water, to municipal incineration/CH U	kg	8.91613E-07	9.81783E-07	-5.64551E-08 -3.37143E-08
903 Ethylvinylacetate, foil, at plant/RER U 904 Fuel elements BWR, UO2 4.0% & MOX, at nuclear fuel fabrication plant/UCTE	kg kg	8.86569E-07 8.45721E-07	9.78285E-07 9.29196E-07	-5.90121E-08 -3.27036E-08 -5.29552E-08 -3.05198E-08
905 Monoethanolamine, at plant/RER U	kg	8.3267E-07	9.16283E-07	-5.21825E-08 -3.14308E-08
906 Silicon, electronic grade, off-grade, at plant/DE U	kg ka	8.12891E-07	8.96994E-07	-5.41157E-08 -2.99868E-08
907 U enriched 4.0%, in fuel element for LWR, at nuclear fuel fabrication plant/UCl 908 Trimethylamine, at plant/RER U	kg kg	7.78063E-07 7.59838E-07	8.5486E-07 8.17315E-07	-4.87188E-08 -2.80782E-08 -3.8719E-08 -1.87584E-08
909 Fleece, polyethylene, at plant/RER U	kg	7.42185E-07	7.49356E-07	-4.44727E-09 -2.7243E-09
910 Uranium, enriched 3.8%, at USEC enrichment plant/US U 911 Uranium, enriched 3.8%, at TENEX enrichment plant/RU U	kg kg	6.87682E-07 6.87682E-07	7.79461E-07 7.79461E-07	-6.40414E-08 -2.77383E-08 -6.40414E-08 -2.77383E-08
912 Disposal, hard coal ash, 0% water, to residual material landfill/SK U	kg	6.18091E-07	1.21395E-06	-3.13836E-07 -2.82024E-07
913 Disposal, paint, 0% water, to municipal incineration/CH U 914 Disposal, polypropylene, 15.9% water, to municipal incineration/CH U	kg kg	5.54239E-07 5.4569E-07	6.22766E-07 5.81732E-07	-4.29446E-08 -2.55823E-08 -2.44175E-08 -1.16237E-08
915 Disposal, building, paint on wood, to final disposal/CH U	kg kg	5.42986E-07	6.02363E-07	-3.72241E-08 -2.21527E-08
916 Disposal, building, glass pane (in burnable frame), to final disposal/CH U	kg	5.13461E-07	5.18416E-07	-3.07296E-09 -1.88267E-09
917 Glyphosate, at regional storehouse/CH U 918 AKD sizer, in paper production, at plant/RER U	kg kg	5.05476E-07 4.72761E-07	5.86908E-07 6.13572E-07	-5.72763E-08 -2.41561E-08 -9.93746E-08 -4.14366E-08
919 Solid unbleached board, SUB, at plant/RER U	kg	3.76861E-07	5.24163E-07	-8.45761E-08 -6.27261E-08
920 Disposal, packaging cardboard, 19.6% water, to inert material landfill/CH U	kg ka	3.75832E-07	4.16617E-07	-2.43169E-08 -1.64684E-08
921 Cyclohexanol, at plant/RER U 922 Alkylbenzene sulfonate, linear, petrochemical, at plant/RER U	kg kg	2.94568E-07 2.93049E-07	5.81246E-07 3.23382E-07	-2.52442E-07 -3.42362E-08 -1.95211E-08 -1.08119E-08
923 Tetrachloroethylene, at plant/WEU U	kg	2.888E-07	5.74881E-07	-2.52058E-07 -3.40234E-08
924 Nitrobenzene, at plant/RER U 925 Methyl ethyl ketone, at plant/RER U	kg kg	2.888E-07 2.888E-07	5.74881E-07 5.74881E-07	-2.52058E-07 -3.40234E-08 -2.52058E-07 -3.40234E-08
926 Dichloromethane, at plant/RER U	kg	2.888E-07	5.74881E-07	-2.52058E-07 -3.40234E-08
927 Diammonium phosphate, as P2O5, at regional storehouse/RER U	kg	2.59752E-07	3.03924E-07	-3.75634E-08 -6.60874E-09
928 Sodium borates, at plant/US U 929 Butene, mixed, at plant/RER U	kg kg	2.49369E-07 2.35949E-07	2.83533E-07 4.69678E-07	-2.06588E-08 -1.35057E-08 -2.05931E-07 -2.77971E-08
930 Disposal, aluminium, 0% water, to sanitary landfill/CH U	kg	2.32929E-07	2.46525E-07	-9.38257E-09 -4.21345E-09
931 Optical brighteners, in paper production, at plant/RER U	kg ka	2.14215E-07	3.078E-07	-7.02545E-08 -2.3331E-08
932 Dinitroaniline-compounds, at regional storehouse/CH U 933 Asbestos, crysotile type, at plant/GLO U	kg kg	2.13589E-07 2.12567E-07	2.54768E-07 1.56318E-06	-3.82213E-08 -2.95726E-09 -6.82946E-07 -6.67664E-07
934 Palladium, secondary, at refinery/RER U	kg	1.92183E-07	1.92258E-07	-5.77377E-11 -1.6975E-11
935 Disposal, zeolite, 5% water, to inert material landfill/CH U 936 Disposal, polystyrene, 0.2% water, to municipal incineration/CH U	kg	1.88142E-07	2.18291E-07	-1.75719E-08 -1.25768E-08 -8.37587E-09 -3.78428E-09
937 Dithiocarbamate-compounds, at regional storehouse/CH U	ka	1 84828F-07	1.909895-117	
	kg kg	1.84828E-07 1.62898E-07	1.96989E-07 1.81952E-07	-1.09678E-08 -8.08625E-09
938 Polymethyl methacrylate, beads, at plant/RER U	kg kg	1.62898E-07 1.60784E-07	1.81952E-07 1.78232E-07	-1.09678E-08 -8.08625E-09 -1.0403E-08 -7.0453E-09
938 Polymethyl methacrylate, beads, at plant/RER U 939 Borax, anhydrous, powder, at plant/RER U 940 Alkylbenzene, linear, at plant/RER U	kg kg kg	1.62898E-07	1.81952E-07	-1.09678E-08 -8.08625E-09
939 Borax, anhydrous, powder, at plant/RER U	kg kg	1.62898E-07 1.60784E-07 1.42645E-07	1.81952E-07 1.78232E-07 1.62295E-07	-1.09678E-08 -8.08625E-09 -1.0403E-08 -7.0453E-09 -1.18691E-08 -7.78057E-09

	Printing colour, offset, 47.5% solvent, at plant/RER U Benzo[thia]diazole-compounds, at regional storehouse/CH U		kg kg	1.15553E-07 1.08778E-07	1.60722E-07 1.29749E-07	-2.59344E-08 -1.92346E-08 -1.94655E-08 -1.50609E-09
944	Fluorescent whitening agent distyrylbiphenyl type, at plant/RER U		kg	1.07107E-07	1.539E-07	-3.51273E-08 -1.16655E-08
	DAS-1, fluorescent whitening agent triazinylaminostilben type, at plant/RER U Diammonium phosphate, as N, at regional storehouse/RER U		kg kg	1.07107E-07 1.01484E-07	1.539E-07 1.18735E-07	-3.51273E-08 -1.16655E-08 -1.46669E-08 -2.58492E-09
	Nylon 6, at plant/RER U		kg	9.91593E-08	1.72021E-07	-4.55716E-08 -2.72897E-08
	EDTA, ethylenediaminetetraacetic acid, at plant/RER U		kg	9.80415E-08	1.10856E-07	-8.20436E-09 -4.61045E-09
	Glass wool mat, at plant/CH U Glass, from public collection, unsorted/RER U		kg kg	9.45318E-08 8.13692E-08	1.04317E-07 8.97916E-08	-6.29714E-09 -3.48771E-09 -5.42033E-09 -3.00208E-09
951	[thio]carbamate-compounds, at regional storehouse/CH U		kg	7.96533E-08	9.26577E-08	-1.07909E-08 -2.21339E-09
	Ethoxylated alcohols (AE3), petrochemical, at plant/RER U		kg	7.86852E-08	9.12915E-08	-7.3475E-09 -5.25886E-09
	Anthraquinone, at plant/RER U Glass, cullets, sorted, at sorting plant/RER U		kg kg	7.85036E-08 7.53418E-08	8.30799E-08 8.31404E-08	-3.15874E-09 -1.41759E-09 -5.01882E-09 -2.77971E-09
955	Sodium silicate, furnace process, pieces, at plant/RER U		kg	6.88425E-08	7.7107E-08	-5.0268E-09 -3.23767E-09
	Disposal, waste, silicon wafer production, 0% water, to underground deposit/D Silicon, pc, casted, at plant/RER U)	kg kg	5.83261E-08 5.61844E-08	6.43634E-08 6.36823E-08	-3.88534E-09 -2.15192E-09 -5.23182E-09 -2.26613E-09
	Polyester resin, unsaturated, at plant/RER U		kg	5.27469E-08	5.82035E-08	-3.51095E-09 -1.94572E-09
	Fatty alcohol, petrochemical, at plant/RER U		kg	4.83914E-08	5.61443E-08	-4.51871E-09 -3.2342E-09
	Polyvinylidenchloride, granulate, at plant/RER U Disposal, polyvinylfluoride, 0.2% water, to municipal incineration/CH U		kg kg	4.35617E-08 4.35617E-08	4.80682E-08 4.80682E-08	-2.89957E-09 -1.6069E-09 -2.89957E-09 -1.6069E-09
962	Acetamide-anillide-compounds, at regional storehouse/CH U		kg	4.31654E-08	5.14622E-08	-7.68708E-09 -6.09769E-10
	N-olefins, at plant/RER U Nitro-compounds, at regional storehouse/CH U		kg kg	3.76485E-08 3.40082E-08	4.36803E-08 3.79861E-08	-3.51556E-09 -2.5162E-09 -2.28974E-09 -1.68816E-09
	Maize seed IP, at regional storehouse/CH U		kg	1.89346E-08	2.19687E-08	-1.76843E-09 -1.26573E-09
	Maize seed IP, at farm/CH U		kg	1.89346E-08	2.19687E-08	-1.76843E-09 -1.26573E-09
	Disposal, polyethylene, 0.4% water, to sanitary landfill/CH U Biocides, for paper production, unspecified, at plant/RER U		kg kg	1.48538E-08 1.16732E-08	1.54926E-08 1.35906E-08	-4.24474E-10 -2.1434E-10 -1.11682E-09 -8.0054E-10
969	Silicone product, at plant/RER U		kg	1.09686E-08	1.52226E-08	-2.67192E-09 -1.58205E-09
	Polycarbonate, at plant/RER U Chromium oxide, flakes, at plant/RER U		kg kg	9.51562E-09 7.80739E-09	1.04985E-08 1.92958E-08	-6.32059E-10 -3.50839E-10 -1.02356E-08 -1.25281E-09
	Adipic acid, at plant/RER U		kg	7.70104E-09	8.49772E-09	-5.12599E-10 -2.84075E-10
	Triazine-compounds, at regional storehouse/CH U		kg	5.72543E-09	6.39513E-09	-3.85488E-10 -2.84209E-10
	Polyurethane, flexible foam, at plant/RER U Acetic anhydride, at plant/RER U		kg kg	5.68819E-09 5.27469E-09	6.44729E-09 5.82035E-09	-5.29678E-10 -2.29427E-10 -3.51095E-10 -1.94572E-10
976	Nitrile-compounds, at regional storehouse/CH U		kg	4.92395E-09	5.4999E-09	-3.31525E-10 -2.44424E-10
	Dithiocarbamate-compounds, at regional storehouse/RER U Cyanazine, at regional storehouse/RER U		kg kg	2.9183E-09 2.9183E-09	3.39764E-09 3.39764E-09	-2.79206E-10 -2.00135E-10 -2.79206E-10 -2.00135E-10
	Chlorine dioxide, at plant/RER U		kg	2.9183E-09	3.39764E-09	-2.79206E-10 -2.00135E-10
	Pitch despergents, in paper production, at plant/RER U		kg	1.87591E-09	2.1764E-09	-1.75138E-10 -1.25352E-10
	Carbon tetrachloride, at plant/RER U Toluene diisocyanate, at plant/RER U		kg kg	1.74394E-09 1.62113E-09	3.66975E-07 1.83748E-09	-1.84001E-07 -1.8123E-07 -1.50958E-10 -6.53867E-11
983	Methylchloride, at regional storage/CH U		kg	1.60855E-09	2.23239E-09	-3.91837E-10 -2.32007E-10
	Methylchloride, at plant/WEU U Disposal, paint, 0% water, to inert material landfill/CH U		kg ka	1.60855E-09 1.52283E-09	2.23239E-09 1.68571E-09	-3.91837E-10 -2.32007E-10 -1.31663E-10 -3.12121E-11
	Disposal, building, paint on metal, to final disposal/CH U		kg kg	1.52283E-09	1.68571E-09	-1.31663E-10 -3.12121E-11
987	Pyretroid-compounds, at regional storehouse/CH U		kg	8.35232E-10	9.95773E-10	-1.48742E-10 -1.17988E-11
	Atrazine, at regional storehouse/CH U [sulfonyl]urea-compounds, at regional storehouse/CH U		kg kg	4.96876E-10 3.81272E-10	5.76498E-10 4.25869E-10	-4.64067E-11 -3.32149E-11 -2.56707E-11 -1.89263E-11
	Rhodium, at regional storage/RER U		kg	3.05954E-10	3.84707E-10	-6.08696E-11 -1.78831E-11
	Phosphorus, white, liquid, at plant/RER U		kg	1.99152E-10	2.23639E-10	-1.44306E-11 -1.00563E-11
	Rhodium, primary, at refinery/ZA U Disposal, building, brick, to sorting plant/CH U		kg kg	1.97034E-10 1.81873E-10	2.47751E-10 2.00688E-10	-3.92E-11 -1.15167E-11 -1.21058E-11 -6.70885E-12
994	Rhodium, primary, at refinery/RU U		kg	6.30265E-11	7.92495E-11	-1.25391E-11 -3.68393E-12
	Fluosilicic acid, 22% in H2O, at plant/RER U Rhodium, secondary, at refinery/RER U		kg kg	5.03821E-11 4.58931E-11	6.99219E-11 5.7706E-11	-1.22729E-11 -7.26683E-12 -9.13044E-12 -2.68247E-12
	Fluosilicic acid, 22% in H2O, at plant/US U		kg	3.17407E-11	4.40508E-11	-7.73195E-12 -4.5781E-12
	Fluosilicic acid, 22% in H2O, at plant/MA U		kg	1.86414E-11	2.58711E-11	-4.54098E-12 -2.68873E-12
	Silicon tetrachloride, at plant/DE U Triazine-compounds, at regional storehouse/RER U		kg kg	1.27817E-11 4.1656E-12	1.77389E-11 4.83312E-12	-3.11359E-12 -1.84356E-12 -3.89054E-13 -2.7846E-13
1001	Acetamide-anillide-compounds, at regional storehouse/RER U		kg	3.73011E-12	4.32784E-12	-3.48381E-13 -2.49348E-13
	Organophosphorus-compounds, at regional storehouse/RER U Sodium silicate/AU U		kg kg	1.57725E-12 9.65776E-13	1.82999E-12 5.8743E-13	-1.4731E-13 -1.05435E-13 3.6341E-13 1.49347E-14
	Caustic soda, 50% in H2O/AU U		kg	-4.35811E-15	1.84259E-14	-1.09265E-14 -1.18576E-14
	Welding dust to special waste treatment U		kg	-4.84405E-15	-1.02057E-24	-3.02753E-15 -1.81652E-15
	Glas (inert) to landfill U PE to MWI U	-	kg kg	-1.9047E-14 -2.93611E-14	-4.01291E-24 -6.18593E-24	-1.19044E-14 -7.14262E-15 -1.83507E-14 -1.10104E-14
1008	LT PE to MWI U	-	kg	-2.93611E-14	-6.18593E-24	-1.83507E-14 -1.10104E-14
	Palladium enriched ETH U Rhodium enriched ETH U	-	kg kg	-3.58244E-14 -3.81179E-14	-7.54766E-24 -8.03086E-24	-2.23902E-14 -1.34342E-14 -2.38237E-14 -1.42942E-14
	Platinum ETH U	-	kg	-4.07584E-14	-8.58718E-24	-2.5474E-14 -1.52844E-14
	LT carton to MWI U	-	kg	-1.53558E-13	-3.23524E-23	-9.5974E-14 -5.75844E-14
	Carton to MWI U Copper (inert) to landfill U		kg kg	-1.53558E-13 -3.39554E-13	-3.23524E-23 -7.1539E-23	-9.5974E-14 -5.75844E-14 -2.12221E-13 -1.27333E-13
1015	Uranium enriched 3.25% TENEX U		kg	-4.17193E-13	-8.78962E-23	-2.60745E-13 -1.56447E-13
	Chlorine/AU U Charcoal ETH U		kg kg	-5.35263E-13 -7.21145E-13	2.26307E-12 -1.51934E-22	-1.34199E-12 -1.45634E-12 -4.50716E-13 -2.70429E-13
	Packaging carton ETH U	-	kg	-7.48122E-13	-1.57618E-22	-4.67576E-13 -2.80546E-13
	Uranium enriched 3.25% URENCO U		kg	-8.34385E-13	-1.75792E-22	-5.21491E-13 -3.12895E-13
	Hydrofluosilicic acid/AU U Aluminium sulphate/AU U		kg kg	-1.26322E-12 -1.70311E-12	5.34085E-12 7.20069E-12	-3.1671E-12 -3.43697E-12 -4.26997E-12 -4.63382E-12
1022	MG-Silicium ETH U	-	kg	-1.80286E-12	-3.79836E-22	-1.12679E-12 -6.76074E-13
	Thin wood beech to road U Tetra ethyl lead ETH U		kg kg	-2.09132E-12 -2.67598E-12	-4.4061E-22 -5.63788E-22	-1.30708E-12 -7.84245E-13 -1.67249E-12 -1.00349E-12
	Uranium 3.4% in fuel element BWR rest UCPTE U		kg	-4.99013E-12	-1.05135E-21	-3.11883E-12 -1.8713E-12
	Uranium 3.25% in fuel element BWR CH U Uranium 3.5% in fuel element PWR CH U		kg ka	-5.15053E-12 -5.23567E-12	-1.08514E-21 -1.10308E-21	-3.21908E-12 -1.93145E-12 -3.27229E-12 -1.96338E-12
	Uranium enriched 3.25% USEC U		kg kg	-9.59543E-12	-2.02161E-21	-5.99715E-12 -3.59829E-12
	Uranium enriched 3.25% EURODIF U		kg	-1.00126E-11	-2.10951E-21	-6.25789E-12 -3.75473E-12
	Uranium enriched 3.5% TENEX U Uranium enriched 3.7% EURODIF U		kg kg	-1.08601E-11 -1.27671E-11	-2.28805E-21 -2.68984E-21	-6.78755E-12 -4.07253E-12 -7.97944E-12 -4.78766E-12
	Paint (inert) to landfill U	-	kg	-1.66929E-11	-3.51695E-21	-1.04331E-11 -6.25986E-12
	Uranium enriched 3.4% TENEX U		kg	-1.74913E-11 -1.78103E-11	-3.68516E-21	-1.09321E-11 -6.55925E-12
	Uranium 3.4% in fuel element BWR D U Uranium enriched 3.25% for BWR CH U		kg kg	-2.08596E-11	-3.75236E-21 -4.39481E-21	-1.11314E-11 -6.67886E-12 -1.30373E-11 -7.82236E-12
	Uranium enriched 3.4% BWR rest UCPTE U		kg	-2.16073E-11	-4.55233E-21	-1.35045E-11 -8.10273E-12
	Uranium enriched 3.4% USEC U Uranium enriched 3.5% for PWR CH U		kg kg	-2.24645E-11 -2.36652E-11	-4.73294E-21 -4.98591E-21	-1.40403E-11 -8.4242E-12 -1.47908E-11 -8.87446E-12
	Fuel oil lowS 2000 stock CH U		kg	-2.91311E-11	-6.13749E-21	-1.8207E-11 -1.09242E-11
	Fuel oil lowS 2000 refinery CH U		kg ka	-2.91311E-11 -2.93762E-11	-6.13749E-21	-1.8207E-11 -1.09242E-11
1042	Uranium enriched 3.5% URENCO U Uranium enriched 3.7% USEC U		kg kg	-2.93762E-11 -2.97899E-11	-6.18913E-21 -6.27628E-21	-1.83601E-11 -1.10161E-11 -1.86187E-11 -1.11712E-11
	Uranium 3.5% in fuel element PWR rest UCPTE U		kg	-4.00445E-11	-8.43678E-21	-2.50278E-11 -1.50167E-11
	Uranium 3.7% in fuel element PWR D U Uranium enriched 3.7% TENEX U		kg kg	-4.33371E-11 -4.46848E-11	-9.13047E-21 -9.41442E-21	-2.70857E-11 -1.62514E-11 -2.7928E-11 -1.67568E-11
1046	Uranium enriched 3.4% URENCO U		kg	-4.78767E-11	-1.00869E-20	-2.9923E-11 -1.79538E-11
	Wood ash mixed to MWI U LT wood ashes mixed to MWI U		kg ka	-5.51543E-11 -5.51543E-11	-1.16202E-20	-3.44714E-11 -2.06829E-11
	Uranium enriched 3.5% EURODIF U		kg kg	-5.51543E-11 -6.66895E-11	-1.16202E-20 -1.40505E-20	-3.44714E-11 -2.06829E-11 -4.16809E-11 -2.50086E-11
1050	Diesel stock CH U		kg	-6.74305E-11	-1.42066E-20	-4.2144E-11 -2.52864E-11
	Diesel refinery CH U Uranium enriched 3.4% for BWR D U		kg kg	-6.74305E-11 -7.71185E-11	-1.42066E-20 -1.62477E-20	-4.2144E-11 -2.52864E-11 -4.81991E-11 -2.89195E-11
1053	Paraxylene ETH U	-	kg	-8.51442E-11	-1.79386E-20	-5.32151E-11 -3.19291E-11
	Petrol leaded stock CH U Petrol leaded refinery CH U		kg kg	-9.15096E-11 -9.17841E-11	-1.92797E-20 -1.93375E-20	-5.71935E-11 -3.43161E-11 -5.73651E-11 -3.4419E-11
1056	Uranium enriched 3.5% USEC U		kg	-9.77407E-11	-2.05925E-20	-6.10879E-11 -3.66528E-11
	Ureum ETH U	-	kg	-1.17996E-10 -1.25543E-10	-2.486E-20 -2.645E-20	-7.37477E-11 -4.42486E-11 -7.84644E-11 -4.70787E-11
	Uranium enriched 3.7% URENCO U Imported coal CH U		kg kg	-1.25543E-10 -1.32357E-10	-2.645E-20 -2.78856E-20	-7.84644E-11 -4.70787E-11 -8.27231E-11 -4.96338E-11
	Aluminium 100% recycled ETH U	-	kg	-1.33545E-10	-2.8136E-20	-8.34659E-11 -5.00795E-11

1061 Uranium 3 49/ in fuel element DMR E II		ka	1 F2699E 10	2 22707E 20	0.605405.14 5.763305.14
1061 Uranium 3.4% in fuel element PWR F U 1062 Limestone (inert) to landfill U		kg kg	-1.53688E-10 -1.75436E-10	-3.23797E-20 -3.69617E-20	-9.60549E-11 -5.76329E-11 -1.09648E-10 -6.57885E-11
1063 Uranium enriched 3.5% PWR rest UCPTE U		kg	-1.81001E-10	-3.81342E-20	-1.13126E-10 -6.78755E-11
1064 Phosphoric acid ETH U	-	kg	-2.05192E-10	-4.32309E-20	-1.28245E-10 -7.6947E-11
1065 Phenol ETH U 1066 Uranium enriched 3.7% for PWR D U		kg kg	-2.07669E-10 -2.12785E-10	-4.37527E-20 -4.48306E-20	-1.29793E-10 -7.78758E-11 -1.32991E-10 -7.97944E-11
1067 Spent fuel processing U		kg	-2.70256E-10	-5.69389E-20	-1.6891E-10 -1.01346E-10
1068 Sludge to HA chemical landfill U		kg	-3.2824E-10	-6.91552E-20	-2.0515E-10 -1.2309E-10
1069 LT sludge to HA chemical landfill U	-	kg ka	-3.2824E-10 -3.78353E-10	-6.91552E-20 -7.97133E-20	-2.0515E-10 -1.2309E-10 -2.36471E-10 -1.41882E-10
1070 Zinc for plating ETH U 1071 Formaldehyde ETH U		kg kg	-3.97916E-10	-8.3835E-20	-2.48698E-10 -1.49219E-10
1072 MTBE U	-	kg	-5.29174E-10	-1.11489E-19	-3.30734E-10 -1.9844E-10
1073 Uranium enriched 3.4% for PWR F U		kg	-6.65468E-10	-1.40204E-19	-4.15918E-10 -2.49551E-10
1074 Uranium enriched 3.4% EURODIF U		kg	-6.76361E-10	-1.42499E-19	-4.22726E-10 -2.53636E-10 -5.26569E-10 -3.15941E-10
1075 Uranium in ore (underground mine) U 1076 Paper ETH U		kg kg	-8.42511E-10 -8.5262E-10	-1.77504E-19 -1.79634E-19	-5.26569E-10 -3.15941E-10 -5.32887E-10 -3.19732E-10
1077 H2 ETH U	-	kg	-1.09268E-09	-2.30212E-19	-6.82926E-10 -4.09755E-10
1078 HF ETH U	-	kg	-1.18234E-09	-2.49102E-19	-7.38965E-10 -4.43379E-10
1079 Uranium in ore (open mine) U 1080 Propylene glycol ETH U		kg kg	-1.26377E-09 -1.37437E-09	-2.66257E-19 -2.8956E-19	-7.89854E-10 -4.73912E-10 -8.58983E-10 -5.1539E-10
1081 Cadmium free brazing ETH U	-	kg	-1.60179E-09	-3.37473E-19	-1.00112E-09 -6.00672E-10
1082 Mineral wool (inert) to landfill U	-	kg	-1.60892E-09	-3.38976E-19	-1.00558E-09 -6.03346E-10
1083 Float glass uncoated ETH U		kg	-1.62376E-09	-3.42102E-19	-1.01485E-09 -6.08911E-10
1084 Petrol unleaded stock Europe U 1085 Petrol unleaded refinery Europe U		kg kg	-1.76506E-09 -1.77212E-09	-3.71872E-19 -3.73359E-19	-1.10316E-09 -6.61898E-10 -1.10758E-09 -6.64545E-10
1086 PP ETH U	-	kg	-1.81407E-09	-3.82197E-19	-1.13379E-09 -6.80276E-10
1087 Paint ETH U	-	kg	-1.8595E-09	-3.91769E-19	-1.16219E-09 -6.97313E-10
1088 Uranium natural in UF6 U 1089 Uranium natural in concentrate U		kg ka	-2.00397E-09 -2.00598E-09	-4.22207E-19 -4.22629E-19	-1.25248E-09 -7.5149E-10 -1.25374E-09 -7.52242E-10
1099 Oranium natural in concentrate of	-	kg kg	-2.00982E-09	-4.2344E-19	-1.25614E-09 -7.53684E-10
1091 Manganese ETH U	-	kg	-2.05856E-09	-4.33708E-19	-1.2866E-09 -7.71961E-10
1092 Uranium from mine U		kg	-2.10628E-09	-4.43761E-19	-1.31642E-09 -7.89854E-10
1093 Catalyst waste in special landfill U 1094 Refinery gas refinery CH U		kg kg	-2.28935E-09 -2.38255E-09	-4.82332E-19 -5.01968E-19	-1.43084E-09 -8.58507E-10 -1.4891E-09 -8.93457E-10
1095 Argon ETH U	-	kg	-2.72823E-09	-5.74797E-19	-1.70514E-09 -1.02309E-09
1096 Propylene ETH U	-	kg	-2.91886E-09	-6.14961E-19	-1.82429E-09 -1.09457E-09
1097 Residual oil in refinery furnace CH U	-	kg	-3.02615E-09	-6.37564E-19	-1.89134E-09 -1.13481E-09
1098 Infra slags compartment per kg U 1099 Ammonium carbonate, at plant/RER U	-	kg kg	-3.322E-09 -3.34996E-09	-6.99896E-19 2.59372E-09	-2.07625E-09 -1.24575E-09 -5.52136E-09 -4.22324E-10
1100 Slags per kg (process specific) U	-	kg	-3.35916E-09	-7.07724E-19	-2.09947E-09 -1.25968E-09
1101 O2 ETH U	-	kg	-3.60324E-09	-7.59149E-19	-2.25203E-09 -1.35122E-09
1102 Mineral wool ETH U 1103 Nickel enriched ETH U	-	kg ka	-3.63427E-09 -3.95342E-09	-7.65686E-19 -8.32927E-19	-2.27142E-09 -1.36285E-09 -2.47089E-09 -1.48253E-09
1104 Waste from cooling U		kg kg	-4.2642E-09	-8.98402E-19	-2.66512E-09 -1.59907E-09
1105 LT waste to HA chemical landfill U	-	kg	-4.2642E-09	-8.98402E-19	-2.66512E-09 -1.59907E-09
1106 Petrol leaded stock Europe U		kg	-5.42088E-09	-1.1421E-18	-3.38805E-09 -2.03283E-09
1107 Petrol leaded refinery Europe U 1108 LT bitumen to HA chemical landfill U		kg ka	-5.44256E-09 -6.37705E-09	-1.14667E-18 -1.34355E-18	-3.4016E-09 -2.04096E-09 -3.98566E-09 -2.39139E-09
1109 Bitumen to HA chemical landfill U		kg kg	-6.37705E-09	-1.34355E-18	-3.98566E-09 -2.39139E-09
1110 Refinery gas in furnace CH U		kg	-6.43933E-09	-1.35667E-18	-4.02458E-09 -2.41475E-09
1111 Chromium ETH U	-	kg	-6.54219E-09	-1.37834E-18	-4.08887E-09 -2.45332E-09
1112 Silicon film/AU U 1113 Soda ETH U	-	kg ka	-7.8356E-09 -8.7718E-09	3.29775E-08 -1.84809E-18	-1.95726E-08 -2.12405E-08 -5.48238E-09 -3.28943E-09
1114 Lime (hydrated) ETH U	-	kg kg	-9.94282E-09	-2.0948E-18	-6.21426E-09 -3.72856E-09
1115 Mercury, liquid, at plant/GLO U		kg	-1.22867E-08	9.45919E-08	-5.40411E-08 -5.28375E-08
1116 Bilge oil to special waste incinerator U		kg	-1.29579E-08	-2.73004E-18	-8.09872E-09 -4.85923E-09
1117 LT asphalt to HA chemical landfill U 1118 Asphalt to HA chemical landfill U	-	kg kg	-1.30865E-08 -1.30865E-08	-2.75713E-18 -2.75713E-18	-8.17907E-09 -4.90744E-09 -8.17907E-09 -4.90744E-09
1119 LDPE ETH U	-	kg	-1.33644E-08	-2.81568E-18	-8.35276E-09 -5.01166E-09
1120 PVC high impact ETH U	-	kg	-1.37888E-08	-2.9051E-18	-8.61802E-09 -5.17081E-09
1121 Fuel oil lowS stock Europe U		kg	-1.39255E-08	-2.93388E-18	-8.70341E-09 -5.22204E-09 -8.70341E-09 -5.22204E-09
1122 Fuel oil lowS refinery Europe U 1123 Vinyl chloride ETH U	-	kg kg	-1.39255E-08 -1.40646E-08	-2.93388E-18 -2.9632E-18	-8.79038E-09 -5.27423E-09
1124 Refinery sludge to landfarming U		kg	-1.60155E-08	-3.37422E-18	-1.00097E-08 -6.0058E-09
1125 Bitumen refinery CH U		kg	-1.62551E-08	-3.4247E-18	-1.01594E-08 -6.09565E-09
1126 Zeolite ETH U 1127 Zeolite (inert) to landfill U	-	kg ka	-1.67501E-08 -1.67501E-08	-3.52898E-18 -3.52898E-18	-1.04688E-08 -6.28127E-09 -1.04688E-08 -6.28127E-09
1128 Ceramics ETH U	-	kg kg	-1.72962E-08	-3.64405E-18	-1.08101E-08 -6.48608E-09
1129 Wood board ETH U	-	kg	-1.7421E-08	-3.67034E-18	-1.08881E-08 -6.53287E-09
1130 Imported coal Ex-Ju U		kg	-1.92395E-08	-4.05347E-18	-1.20247E-08 -7.2148E-09
1131 Waste collection municipality per kg U 1132 Infra municipal waste collection per kg U	-	kg kg	-2.00686E-08 -2.00686E-08	-4.22815E-18 -4.22815E-18	-1.25429E-08 -7.52572E-09 -1.25429E-08 -7.52572E-09
1133 Silicate (waterglass) ETH U	-	kg	-2.06026E-08	-4.34065E-18	-1.28766E-08 -7.72596E-09
1134 Coal mix Ex-Ju U		kg	-2.15258E-08	-4.53517E-18	-1.34536E-08 -8.07219E-09
1135 Residual oil refinery CH U 1136 Iron sulfate ETH U		kg kg	-2.29573E-08 -2.31141E-08	-4.83675E-18 -4.86979E-18	-1.43483E-08 -8.60897E-09 -1.44463E-08 -8.66778E-09
1137 Oil sludge to special waste incinerator U		kg	-2.33922E-08	-4.92839E-18	-1.46202E-08 -8.77209E-09
1138 Wood chips saw mill to stock U		kg	-2.36813E-08	-4.9893E-18	-1.48008E-08 -8.8805E-09
1139 Polycrystalline ribbon wafer cells/AU U	-	kg	-2.45806E-08	1.03452E-07	-6.14001E-08 -6.66321E-08
1140 Waste to special waste incinerator U 1141 Lead ETH U		kg kg	-2.53332E-08 -2.62761E-08	-5.33733E-18 -5.53598E-18	-1.58333E-08 -9.49996E-09 -1.64226E-08 -9.85354E-09
1142 Plastics to MWI U		kg	-2.63507E-08	-5.5517E-18	-1.64692E-08 -9.88152E-09
1143 LT plastics to MWI U	-	kg	-2.63507E-08	-5.5517E-18	-1.64692E-08 -9.88152E-09
1144 N2 ETH U 1145 Steel high alloy ETH U	-	kg kg	-2.71124E-08 -3.02958E-08	-5.71217E-18 -6.38287E-18	-1.69452E-08 -1.01671E-08 -1.89349E-08 -1.13609E-08
1146 NaOH ETH U		kg	-3.4552E-08	-7.2796E-18	-2.1595E-08 -1.2957E-08
1147 Aluminium 0% recycled ETH U	-	kg	-3.77879E-08	-7.96135E-18	-2.36175E-08 -1.41705E-08
1148 Lime (burnt) ETH U 1149 Silicon, solar grade/AU U	-	kg kg	-4.07896E-08 -4.09979E-08	-8.59375E-18 1.72547E-07	-2.54935E-08 -1.52961E-08 -1.02409E-07 -1.11136E-07
1150 MG-silicon/AU U	-	kg	-4.26379E-08	1.79449E-07	-1.06506E-07 -1.15581E-07
1151 Refinery sludge to HA chemical landfill U		kg	-4.80464E-08	-1.01227E-17	-3.0029E-08 -1.80174E-08
1152 LT refinery sludge to HA chemical landfill U	-	kg	-4.80464E-08	-1.01227E-17	-3.0029E-08 -1.80174E-08
1153 Water - reticulated SA/AU U 1154 HCI ETH U		kg kg	-4.86602E-08 -5.07094E-08	2.05734E-07 -1.06837E-17	-1.21999E-07 -1.32395E-07 -3.16934E-08 -1.9016E-08
1155 Crude oil in drill tests U	-	kg	-5.58734E-08	-1.17717E-17	-3.49209E-08 -2.09525E-08
1156 Chlorine ETH U		kg	-6.00922E-08	-1.26605E-17	-3.75576E-08 -2.25346E-08
1157 Cobalt, at plant/GLO U 1158 Plastics to HA chemical landfill U		kg ka	-6.14621E-08	1.3927E-12 -1.35138E-17	-3.07318E-08 -3.07317E-08 -4.00888E-08 -2.40533E-08
1159 LT plastics to HA chemical landfill U	-	kg kg	-6.41421E-08 -6.41421E-08	-1.35138E-17 -1.35138E-17	-4.00888E-08 -2.40533E-08
1160 Wood waste in forest U		kg	-6.42624E-08	-1.35391E-17	-4.0164E-08 -2.40984E-08
1161 Desulphurisation lignite U	-	kg ka	-6.88242E-08	-1.45002E-17	-4.30151E-08 -2.58091E-08
1162 Copper ETH U 1163 Water - reticulated WA/AU U		kg kg	-7.00552E-08 -7.29903E-08	-1.47596E-17 3.08601E-07	-4.37845E-08 -2.62707E-08 -1.82999E-07 -1.98592E-07
1164 Water - reticulated QLD/AU U		kg	-7.29903E-08	3.08601E-07	-1.82999E-07 -1.98592E-07
1165 Transported coal UCPTE U		kg	-7.48714E-08	-1.57743E-17	-4.67946E-08 -2.80768E-08
1166 Chemicals organic ETH U 1167 Refinery sludge to special waste incinerator U	- 	kg ka	-7.48817E-08 -8.00773E-08	-1.57765E-17 -1.68711E-17	-4.68011E-08 -2.80806E-08 -5.00483E-08 -3.0029E-08
1168 Gypsum ETH U	-	kg kg	-8.33368E-08	-1.75578E-17	-5.20855E-08 -3.12513E-08
1169 NOx retained in SCR U	-	kg	-9.15741E-08	-1.92933E-17	-5.72338E-08 -3.43403E-08
1170 Gypsum stone ETH U	-	kg ka	-9.58373E-08	-2.01915E-17	-5.98983E-08 -3.5939E-08
1171 LT decarbonizing waste to LA chemical landfill U 1172 Decarbonizing waste to LA chemical landfill U		kg kg	-9.91065E-08 -9.91065E-08	-2.08803E-17 -2.08803E-17	-6.19416E-08 -3.7165E-08 -6.19416E-08 -3.7165E-08
1173 H2SO4 ETH U	-	kg	-1.01618E-07	-2.14094E-17	-6.35113E-08 -3.81068E-08
1174 Gas pipes (inert) to landfill U	-	kg	-1.19699E-07	-2.52187E-17	-7.48117E-08 -4.4887E-08
1175 Water - reticulated Vict/AU U 1176 Transported imported coal UCPTE U		kg kg	-1.21651E-07 -1.32357E-07	5.14335E-07 -2.78856E-17	-3.04998E-07 -3.30987E-07 -8.27231E-08 -4.96338E-08
1177 Cast iron ETH U	-	kg kg	-1.3237E-07 -1.35641E-07	-2.85775E-17	-8.47755E-08 -5.08653E-08
1178 Infra HA chemical landfill per kg U	-	kg	-1.36244E-07	-2.87047E-17	-8.51528E-08 -5.10917E-08
1179 HA chemical landfill per kg (process specific) U	-	kg	-1.36244E-07	-2.87047E-17	-8.51528E-08 -5.10917E-08

180 Desulphurisation unit U	-	kg	-1.38249E-07	-2.91269E-17	-8.64054E-08 -5.18432E-0
I81 Bentonite ETH U I82 Infra special waste incinerator U	-	kg kg	-1.41045E-07 -1.41761E-07	-2.97161E-17 -2.98669E-17	-8.81532E-08 -5.28919E-0 -8.86005E-08 -5.31603E-0
183 Sulphite, at plant/RER U		kg	-1.47092E-07	2.72649E-06	-1.45298E-06 -1.4206E-0
I84 Steel (inert) to landfill U I85 Hydrogen chloride, HCL, 100%/AU U	-	kg kg	-1.54551E-07 -1.63992E-07	-3.25615E-17 6.90187E-07	-9.65943E-08 -5.79566E-0 -4.09637E-07 -4.44543E-0
186 Steel low alloy ETH U	-	kg	-1.64291E-07	-3.46137E-17	-1.02682E-07 -6.16093E-0
187 Water - reticulated Sydney/AU U		kg	-1.70311E-07	7.20069E-07	-4.26997E-07 -4.63382E-0 -1.08496E-07 -6.50977E-0
188 Coal mix A U 189 Imported coal A U		kg kg	-1.73594E-07 -1.78359E-07	-3.65736E-17 -3.75775E-17	-1.11474E-07 -6.68846E-0
190 Sodium perborate, tetrahydrate, powder, at plant/RER U		kg	-2.00834E-07	4.00077E-07	-4.76633E-07 -1.24278E-0
I91 Chemicals inorganic ETH U I92 Waste to LA chemical landfill U	-	kg kg	-2.1724E-07 -2.26266E-07	-4.57693E-17 -4.76708E-17	-1.35775E-07 -8.14651E-0 -1.41416E-07 -8.48497E-0
193 Crude oil transported U		kg	-2.38426E-07	-5.02328E-17	-1.49016E-07 -8.94097E-0
194 Carbon black ETH U	-	kg	-2.38426E-07	-5.02328E-17	-1.49016E-07 -8.94097E-0
195 Fuel oil lowS stock CH U 196 Fuel oil lowS refinery CH U		kg kg	-2.56149E-07 -2.56149E-07	-5.39667E-17 -5.39667E-17	-1.60093E-07 -9.60558E-0 -1.60093E-07 -9.60558E-0
197 Heating oil petro refinery Europe U		kg	-2.64993E-07	-5.583E-17	-1.6562E-07 -9.93722E-0
198 Wooden poles to MWI U		kg	-2.82371E-07	-5.94914E-17	-1.76482E-07 -1.05889E-0
199 LT wooden poles to MWI U 200 Molybdenum, at regional storage/RER U	-	kg kg	-2.82371E-07 -2.83984E-07	-5.94914E-17 2.68082E-07	-1.76482E-07 -1.05889E-0 -5.11717E-07 -4.035E-0
201 HDPE ETH U	-	kg	-3.05813E-07	-6.44302E-17	-1.91133E-07 -1.1468E-0
202 Infra MWI per kg U 203 MWI 95 per kg (process specific) U	-	kg kg	-3.08777E-07 -3.08986E-07	-6.50548E-17 -6.50987E-17	-1.92986E-07 -1.15792E-0 -1.93116E-07 -1.1587E-0
204 Construction waste (inert) to landfill U	-	kg	-3.21319E-07	-6.76971E-17	-2.00824E-07 -1.20495E-0
205 Ethylene ETH U	-	kg	-3.32576E-07	-7.00687E-17	-2.0786E-07 -1.24716E-0
206 Coal from underground mine Australia U 207 NaCl ETH U	-	kg kg	-3.33926E-07 -3.39065E-07	-7.03531E-17 -7.14358E-17	-2.08704E-07 -1.25222E-0 -2.11915E-07 -1.27149E-0
208 Naphtha refinery Europe U		kg	-3.4599E-07	-7.28948E-17	-2.16244E-07 -1.29746E-0
209 Water only (m3) to WWTP size 2 U	-	kg	-4.08733E-07	-8.6114E-17	-2.55458E-07 -1.53275E-0
210 Disposal, paper, 11.2% water, to sanitary landfill/CH U 211 Ammonia/AU U		kg kg	-4.28099E-07 -4.42366E-07	3.26124E-06 1.87031E-06	-1.8654E-06 -1.82394E-0 -1.10908E-06 -1.20359E-0
212 Gravel from pit ETH U	-	kg	-4.70036E-07	-9.90296E-17	-2.93773E-07 -1.76264E-0
213 EPDM rubber ETH U	-	kg	-4.71197E-07	-9.92742E-17	-2.94498E-07 -1.76699E-0
214 Imported coal P U 215 Coal from underground mine N-America U		kg kg	-4.7563E-07 -4.82393E-07	-1.00208E-16 -1.01633E-16	-2.97269E-07 -1.78361E-0 -3.01495E-07 -1.80897E-0
216 Water - reticulated/AU U		kg	-4.86602E-07	2.05734E-06	-1.21999E-06 -1.32395E-0
217 Coal mix P U 218 Disposal, spent activated carbon with mercury, 0% water, to undergroun	 nd den:	kg ka	-4.88003E-07 -5.27872E-07	-1.02815E-16 4.06394E-06	-3.05002E-07 -1.83001E-0 -2.32176E-06 -2.27005E-0
118 Disposal, spent activated carbon with mercury, 0% water, to undergroun 119 Wood massive ETH U	u иврі -	kg kg	-5.27872E-07 -5.83658E-07	4.06394E-06 -1.22968E-16	-2.32176E-06 -2.27005E-0 -3.64786E-07 -2.18872E-0
20 Thin wood spruce to road U		kg	-6.42622E-07	-1.35391E-16	-4.01639E-07 -2.40983E-0
21 Coal ash in landfill U 22 Imported coal F U		kg kg	-6.57457E-07 -6.79777E-07	-1.38516E-16 -1.43219E-16	-4.1091E-07 -2.46546E-0 -4.24861E-07 -2.54917E-0
223 Transported S-American coal U		kg	-7.06695E-07	-1.4889E-16	-4.41684E-07 -2.6501E-0
24 Coal from stock S-America U		kg	-7.08108E-07	-1.49188E-16	-4.42568E-07 -2.65541E-0
25 Coal from mine S-America U 26 Electro steel ETH U		kg kg	-7.08108E-07 -7.16527E-07	-1.49188E-16 -1.50962E-16	-4.42568E-07 -2.65541E-0 -4.4783E-07 -2.68698E-0
227 Wood in forest U		kg	-7.30568E-07	-1.5392E-16	-4.56605E-07 -2.73963E-0
28 Imported coal B U		kg	-7.32248E-07	-1.54274E-16	-4.57655E-07 -2.74593E-0
29 Coal mix B U 30 Coal from underground mine E-Europe U		kg kg	-8.72325E-07 -9.30801E-07	-1.83786E-16 -1.96106E-16	-5.45203E-07 -3.27122E-0 -5.8175E-07 -3.4905E-0
31 Concrete (inert) to landfill U	-	kg	-9.44879E-07	-1.99072E-16	-5.90549E-07 -3.5433E-0
32 Imported coal E U		kg	-1.02536E-06	-2.16029E-16	-6.40853E-07 -3.84512E-0
33 Imported coal D U 34 Transported N-American coal U		kg kg	-1.06936E-06 -1.06984E-06	-2.25299E-16 -2.254E-16	-6.68352E-07 -4.01011E-0 -6.68652E-07 -4.01191E-0
35 Coal from stock N-America U		kg	-1.07198E-06	-2.25851E-16	-6.6999E-07 -4.01994E-0
236 Coal from mine N-America U 237 Coal mix NL U		kg	-1.07198E-06	-2.25851E-16	-6.6999E-07 -4.01994E-0
238 Transported Australian coal U	-	kg kg	-1.10541E-06 -1.11086E-06	-2.32894E-16 -2.34042E-16	-6.90882E-07 -4.14529E-0 -6.9429E-07 -4.16574E-0
239 Coal from stock Australia U		kg	-1.11309E-06	-2.3451E-16	-6.95679E-07 -4.17407E-0
40 Coal from mine Australia U 41 Baryte ETH U	-	kg ka	-1.11309E-06 -1.11747E-06	-2.3451E-16 -2.35434E-16	-6.95679E-07 -4.17407E-0 -6.98417E-07 -4.1905E-0
42 Transported E-European coal U		kg kg	-1.11921E-06	-2.358E-16	-6.99505E-07 -4.19703E-0
43 Coal from stock E-Europe U		kg	-1.12145E-06	-2.36272E-16	-7.00904E-07 -4.20542E-0
244 Coal from mine E-Europe U 245 Imported coal NL U		kg kg	-1.12145E-06 -1.12778E-06	-2.36272E-16 -2.37606E-16	-7.00904E-07 -4.20542E-0 -7.04862E-07 -4.22917E-0
46 Coal mix I U		kg	-1.18338E-06	-2.4932E-16	-7.39613E-07 -4.43768E-0
47 Imported coal I U		kg	-1.20495E-06	-2.53866E-16	-7.53097E-07 -4.51858E-0
i48 Sulphur/AU U i49 Magnesium-alloy, AZ91, diecasting, at plant/RER U		kg kg	-1.23602E-06 -1.26323E-06	5.22535E-06 1.37725E-07	-3.09866E-06 -3.3627E-0 -1.30216E-06 -9.88024E-0
50 Coal mix F U		kg	-1.4024E-06	-2.95465E-16	-8.76502E-07 -5.25901E-0
51 Iron pellets ETH U	-	kg	-1.44314E-06	-3.04048E-16	-9.01962E-07 -5.41177E-0
152 Coal from underground mine S-Africa U 153 Cement ETH U		kg kg	-1.49588E-06 -1.66674E-06	-3.1516E-16 -3.51156E-16	-9.34927E-07 -5.60956E-0 -1.04171E-06 -6.25026E-0
254 Magnesium, at plant/RER U		kg	-1.8596E-06	2.73089E-07	-1.98056E-06 -1.52124E-0
55 Drilling waste to land farming U		kg	-2.04371E-06	-4.30578E-16	-1.27732E-06 -7.66389E-0
56 Stucco, at plant/CH U 57 Magnesium-alloy, AZ91, at plant/RER U		kg kg	-2.04778E-06 -2.1096E-06	4.07935E-06 2.30001E-07	-4.85994E-06 -1.26719E-0 -2.1746E-06 -1.65E-0
258 Paper, woodfree, coated, at non-integrated mill/RER U		kg	-2.24597E-06	4.39275E-06	-5.27437E-06 -1.36436E-0
59 Transported S-African coal U		kg	-2.48816E-06	-5.24218E-16	-1.5551E-06 -9.33061E-0
60 Coal from stock S-Africa U 61 Coal from mine S-Africa U		kg kg	-2.49314E-06 -2.49314E-06	-5.25267E-16 -5.25267E-16	-1.55821E-06 -9.34927E-0 -1.55821E-06 -9.34927E-0
62 Copper oxide, at plant/RER U		kg	-2.76856E-06	2.14357E-06	-4.5631E-06 -3.49028E-0
63 Sinter ETH U	-	kg	-2.78388E-06	-5.86521E-16	-1.73992E-06 -1.04395E-0
64 Crude iron ETH U 65 Coal mix E U	-	kg kg	-2.812E-06 -2.87667E-06	-5.92445E-16 -6.06071E-16	-1.7575E-06 -1.0545E-0 -1.79792E-06 -1.07875E-0
66 Crude oil transport N-America U		kg	-2.9729E-06	-6.26345E-16	-1.85806E-06 -1.11484E-0
67 Converter steel ETH U	-	kg	-3.00714E-06	-6.33559E-16	-1.87946E-06 -1.12768E-0
68 Limestone ETH U 69 LT drilling waste to LA chemical landfill U	-	kg kg	-3.00973E-06 -3.40618E-06	-6.34104E-16 -7.1763E-16	-1.88108E-06 -1.12865E-0 -2.12886E-06 -1.27732E-0
70 Drilling waste to LA chemical landfill U		kg	-3.40618E-06	-7.1763E-16	-2.12886E-06 -1.27732E-0
71 Steel ETH U	-	kg	-3.54156E-06	-7.46154E-16	-2.21348E-06 -1.32809E-0
72 Fly ash U 73 Infra coal open mine U	_	kg kg	-3.7016E-06 -3.73041E-06	-7.79871E-16 -7.85942E-16	-2.3135E-06 -1.3881E-0 -2.33151E-06 -1.3989E-0
74 Coal from open mine U		kg	-3.73041E-06	-7.85942E-16	-2.33151E-06 -1.3989E-0
75 Infra LA chemical landfill per kg U	-	kg	-3.73422E-06	-7.86744E-16	-2.33389E-06 -1.40033E-0
76 LA chemical landfill per kg (process specific) U 77 Sulphuric acid/AU U	-	kg kg	-3.73423E-06 -3.74551E-06	-7.86746E-16 1.58344E-05	-2.33389E-06 -1.40034E-0 -9.38988E-06 -1.019E-0
78 Iron ore from mine ETH U	-	kg kg	-4.21737E-06	-8.88536E-16	-2.63586E-06 -1.58151E-0
79 Paper, woodfree, coated, at regional storage/RER U		kg	-4.49194E-06	8.78551E-06	-1.05487E-05 -2.72871E-0
80 Residual oil in refinery furnace Europe U 81 Gold (AU)	-	kg kg	-5.31068E-06 -5.33333E-06	-1.11888E-15 -6.31792E-16	-3.31917E-06 -1.9915E-0 -3.33333E-06 -2E-0
• •		kg kg	-5.87403E-06	-0.31792E-16 -1.23757E-15	-3.67127E-06 -2.20276E-0
82 Bitumen refinery Europe U	-	kg	-6.06335E-06	-1.27746E-15	-3.78959E-06 -2.27376E-0
83 Concrete not reinforced ETH U	-	kg ka	-6.49477E-06 -7.27051E-06	-1.36835E-15 -1.53179E-15	-4.05923E-06 -2.43554E-0 -4.54407E-06 -2.72644E-0
83 Concrete not reinforced ETH U 84 Infra transport overseas U		kg	-7.27051E-06 -7.27051E-06	-1.53179E-15 -1.53179E-15	-4.54407E-06 -2.72644E-0
83 Concrete not reinforced ETH U 84 Infra transport overseas U 85 Diesel stock Europe U		ka		· · ·	
183 Concrete not reinforced ETH U 184 Infra transport overseas U 185 Diesel stock Europe U 186 Diesel refinery Europe U 187 Crude oil transport S-America U		kg kg	-7.54867E-06	-1.59039E-15	
283 Concrete not reinforced ETH U 284 Infra transport overseas U 285 Diesel stock Europe U 286 Diesel refinery Europe U 287 Crude oil transport S-America U 288 Sodium sulphate/AU U	 	kg kg	-7.54867E-06 -7.72925E-06	3.2679E-05	-1.93785E-05 -2.10298E-0
183 Concrete not reinforced ETH U 184 Infra transport overseas U 185 Diesel stock Europe U 186 Diesel refinery Europe U 187 Crude oil transport S-America U 188 Sodium sulphate/AU U 189 Coal mix D U		kg kg kg	-7.54867E-06		-1.93785E-05 -2.10298E-0 -5.05144E-06 -3.03087E-0
283 Concrete not reinforced ETH U 284 Infra transport overseas U 285 Diesel stock Europe U 286 Diesel refinery Europe U 287 Crude oil transport S-America U 288 Sodium sulphate/AU U 289 Coal mix D U 290 Sand ETH U 291 Refinery gas in furnace Europe U	 	kg kg kg kg	-7.54867E-06 -7.72925E-06 -8.08231E-06 -8.84004E-06 -8.96072E-06	3.2679E-05 -1.70282E-15 -1.86246E-15 -1.88789E-15	-1.93785E-05 -2.10298E-0 -5.05144E-06 -3.03087E-0 -5.52502E-06 -3.31501E-0 -5.60045E-06 -3.36027E-0
283 Concrete not reinforced ETH U 284 Infra transport overseas U 285 Diesel stock Europe U 286 Diesel refinery Europe U 287 Crude oil transport S-America U 288 Sodium sulphate/AU U 289 Coal mix D U 290 Sand ETH U 291 Refinery gas in furnace Europe U 292 Refinery gas refinery Europe U	 	kg kg kg kg kg	-7.54867E-06 -7.72925E-06 -8.08231E-06 -8.84004E-06 -8.96072E-06 -8.96478E-06	3.2679E-05 -1.70282E-15 -1.86246E-15 -1.88789E-15 -1.88874E-15	-1.93785E-05 -2.10298E-0 -5.05144E-06 -3.03087E-0 -5.52502E-06 -3.31501E-0 -5.60045E-06 -3.36027E-0 -5.60299E-06 -3.36179E-0
283 Concrete not reinforced ETH U 284 Infra transport overseas U 285 Diesel stock Europe U 286 Diesel refinery Europe U 287 Crude oil transport S-America U 288 Sodium sulphate/AU U 289 Coal mix D U 290 Sand ETH U 291 Refinery gas in furnace Europe U 292 Refinery gas refinery Europe U 293 Epoxy resin, liquid, at plant/RER U	 	kg kg kg kg kg kg	-7.54867E-06 -7.72925E-06 -8.08231E-06 -8.84004E-06 -8.96072E-06	3.2679E-05 -1.70282E-15 -1.86246E-15 -1.88789E-15 -1.88874E-15 6.1444E-05	-1.93785E-05 -2.10298E-0 -5.05144E-06 -3.03087E-0 -5.52502E-06 -3.31501E-0 -5.60045E-06 -3.36027E-0 -5.60299E-06 -3.36179E-0 -5.40343E-05 -1.68911E-0
283 Concrete not reinforced ETH U 284 Infra transport overseas U 285 Diesel stock Europe U 286 Diesel refinery Europe U 287 Crude oil transport S-America U 288 Sodium sulphate/AU U 289 Coal mix D U 290 Sand ETH U 291 Refinery gas in furnace Europe U 292 Refinery gas refinery Europe U 293 Epoxy resin, liquid, at plant/RER U 294 Coal tailings in landfill U 295 Interm. benzene/AU U	 	kg kg kg kg kg kg kg	-7.54867E-06 -7.72925E-06 -8.08231E-06 -8.84004E-06 -8.96072E-06 -8.96478E-06 -9.48139E-06 -9.55133E-06 -9.86082E-06	3.2679E-05 -1.70282E-15 -1.86246E-15 -1.88789E-15 -1.88874E-15 -6.1444E-05 -2.01232E-15 4.11044E-05	-1.93785E-05 -2.10298E-0 -5.05144E-06 -3.03087E-0 -5.52502E-06 -3.31501E-0 -5.60045E-06 -3.36027E-0 -5.60299E-06 -3.36179E-0 -5.40343E-05 -1.68911E-0 -5.96958E-06 -3.58175E-0 -2.44412E-05 -2.6524E-0
282 Bitumen refinery Europe U 283 Concrete not reinforced ETH U 284 Infra transport overseas U 285 Diesel stock Europe U 286 Diesel refinery Europe U 287 Crude oil transport S-America U 288 Sodium sulphate/AU U 289 Coal mix D U 290 Sand ETH U 291 Refinery gas in furnace Europe U 292 Refinery gas refinery Europe U 293 Epoxy resin, liquid, at plant/RER U 294 Coal tailings in landfill U 295 Interm. benzene/AU U 296 Benzene/AU U 297 Transported coal Europe to UCPTE U	 	kg kg kg kg kg kg	-7.54867E-06 -7.72925E-06 -8.08231E-06 -8.84004E-06 -8.96072E-06 -8.96478E-06 -9.48139E-06 -9.55133E-06	3.2679E-05 -1.70282E-15 -1.86246E-15 -1.88789E-15 -1.88874E-15 6.1444E-05 -2.01232E-15	-4.71792E-06 -2.83075E-0 -1.93785E-05 -2.10298E-0 -5.05144E-06 -3.03087E-0 -5.52502E-06 -3.31501E-0 -5.60045E-06 -3.36027E-0 -5.60299E-06 -3.36179E-0 -5.40343E-05 -1.68911E-0 -5.96958E-06 -3.58175E-0 -2.44412E-05 -2.6524E-0 -2.44412E-05 -2.6524E-0 -6.22204E-06 -3.73322E-0

4000 Wests (in set) to Londfill II					
1299 Waste (inert) to landfill U	-	kg	-1.13979E-05	-2.40137E-15	-7.12369E-06 -4.27421E-06
1300 Coal from underground mine UCPTE U 1301 Coal from mine UCPTE U		kg kg	-1.14741E-05 -1.19398E-05	-2.41743E-15 -2.51553E-15	-7.17134E-06 -4.3028E-06 -7.46237E-06 -4.47742E-06
1302 Cyclohexane/AU U 1303 Feldspar, at plant/RER U		kg kg	-1.2326E-05 -1.26748E-05	5.13805E-05 2.52891E-05	-3.05515E-05 -3.3155E-05 -3.01122E-05 -7.85174E-06
1304 Caprolactam/AU U		kg	-1.41679E-05	5.90581E-05	-3.51167E-05 -3.81092E-05
1305 Infra coal underground mine U 1306 Lubricants, from refinery production/AU U	-	kg kg	-1.47171E-05 -1.5456E-05	-3.10068E-15 -4.40528E-15	-9.19821E-06 -5.51893E-06 -9.66E-06 -5.796E-06
1307 Infra transport Europe U	-	kg	-1.64681E-05	-3.46958E-15	-1.02926E-05 -6.17554E-06
1308 Polyamides (Nylon) PA 6/AU U 1309 Peat, at mine/NORDEL U		kg kg	-1.64742E-05 -1.67346E-05	6.86722E-05 3.70357E-05	-4.08334E-05 -4.4313E-05 -2.75637E-05 -2.62067E-05
1310 Crude oil transport C-Africa U		kg	-1.6745E-05	-3.52791E-15	-1.04656E-05 -6.27937E-06
1311 Gravel ETH U 1312 PA 6 30% glass fibre(disagg)/AU U	-	kg kg	-2.33782E-05 -2.35346E-05	-4.92543E-15 9.81031E-05	-1.46114E-05 -8.76681E-06 -5.83334E-05 -6.33043E-05
1313 Disposal, sludge, NaCl electrolysis Hg, 0% water, to residual material landfill/1314 Crude oil transport M-East U	С	kg	-2.785E-05 -2.88763E-05	0.000214408 6.08381E 15	-0.000122493 -0.000119765 -1.80477E-05 -1.08286E-05
1315 Tetrafluoroethylene, at plant/RER U		kg kg	-3.19575E-05	-6.08381E-15 2.11275E-09	-1.59798E-05 -1.59798E-05
1316 Infra lignite mine UCPTE U 1317 Crude lignite mine UCPTE U	-	kg kg	-3.25391E-05 -3.25391E-05	-6.85549E-15 -6.85549E-15	-2.03369E-05 -1.22021E-05 -2.03369E-05 -1.22021E-05
1318 Crude oil transport N-Africa U		kg	-3.25896E-05	-6.86614E-15	-2.03685E-05 -1.22211E-05
1319 Ceramic tiles, at regional storage/CH U 1320 Synthetic rubber, at plant/RER S		kg kg	-3.28697E-05 -4.13333E-05	6.54791E-05 -6.93174E-21	-7.80087E-05 -2.03401E-05 -2.58333E-05 -1.55E-05
1321 Hydrogen, liquid, membrane cell, at plant/RER U		kg	-4.54257E-05	1.35148E-05	-2.95406E-05 -2.93999E-05
1322 Trailer, production/CH/I U 1323 Hydrogen, liquid, diaphragm cell, at plant/RER U		kg kg	-4.83797E-05 -4.98834E-05	6.13263E-05 1.4841E-05	-5.69164E-05 -5.27896E-05 -3.24394E-05 -3.22849E-05
1324 Disposal, rubber, unspecified, 0% water, to municipal incineration/CH U		kg	-5.12964E-05	0.000135498	-0.000144122 -4.26722E-05
1325 Chlorodifluoromethane, at plant/NL U 1326 Crude oil transport GUS U		kg kg	-5.7859E-05 -6.27061E-05	3.82513E-09 -1.32112E-14	-2.89314E-05 -2.89314E-05 -3.91913E-05 -2.35148E-05
1327 Crude oil transport Europe U		kg	-7.7601E-05	-1.63494E-14	-4.85006E-05 -2.91004E-05
1328 Kerosene, Aviation, at consumer/AU U 1329 Trichloromethane, at plant/RER U		kg kg	-8E-05 -9.1308E-05	1.84314E-15 1.36831E-06	-5E-05 -3E-05 -4.63548E-05 -4.63215E-05
1330 Aluminium, primary, at plant/RER S		kg	-9.53333E-05	-1.59877E-20	-5.95833E-05 -3.575E-05
1331 Water demineralized ETH U 1332 Crude oil production offshore U	-	kg kg	-9.78495E-05 -0.000102165	-2.06154E-14 -2.15246E-14	-6.1156E-05 -3.66936E-05 -6.38531E-05 -3.83118E-05
1333 Copper (Electro- refining)/AU U		kg	-0.000112667	-1.88946E-20	-7.04167E-05 -4.225E-05
1334 Hydrogen, liquid, mercury cell, at plant/RER U 1335 Copper Smelting/AU U		kg kg	-0.000116961 -0.00012506	3.47974E-05 -2.0973E-20	-7.60602E-05 -7.56979E-05 -7.81625E-05 -4.68975E-05
1336 Crude oil production onshore U		kg	-0.000126931	-2.67424E-14	-7.93316E-05 -4.7599E-05
1337 Residual oil stock Europe ETH U 1338 Disposal, steel, 0% water, to municipal incineration/CH U		kg kg	-0.00019561 -0.00019871	-4.12121E-14 0.000197281	-0.000122256 -7.33538E-05 -0.000306868 -8.91229E-05
1339 Disposal, waste, Si waferprod., inorg, 9.4% water, to residual material landfill/	′C	kg	-0.000199079	0.000411447	-0.000484941 -0.000125585
1340 Residual oil refinery Europe U 1341 Hydrogen, liquid, from chlorine electrolysis, production mix, at plant/RER U		kg kg	-0.000205774 -0.00021227	-4.33535E-14 6.31532E-05	-0.000128609 -7.71653E-05 -0.00013804 -0.000137383
1342 Soda Ash/AU U		kg	-0.000221183	0.000935154	-0.000554542 -0.000601795
1343 Copper Concentrate/AU U 1344 Tin/AU U		kg kg	-0.000225333 -0.000236	-3.77892E-20 -3.9578E-20	-0.000140833 -8.45E-05 -0.0001475 -8.85E-05
1345 Packing, clay products/CH U		kg	-0.000260756	0.00617089	-0.00360113 -0.002830516
1346 Printed board I/AU U 1347 HCN		kg kg	-0.000261667 -0.000288533	0.003666 -7.01661E-14	-0.003142167 -0.0007855 -0.000180333 -0.0001082
1348 Electronics for control units/RER U		kg	-0.000332737	0.000650778	-0.000781388 -0.000202127
1349 Ammonia ETH U 1350 IC's (weigth) I	-	kg kg	-0.000336064 -0.000354667	-7.08036E-14 -5.94788E-20	-0.00021004 -0.000126024 -0.000221667 -0.000133
1351 Propane/ butane, at refinery/RER U		kg	-0.000431194	0.000139721	-0.000317247 -0.000253668
1352 IC's (weigth) I/AU U 1353 Water decarbonized ETH U	-	kg kg	-0.000444 -0.000503079	-7.44603E-20 -1.05991E-13	-0.0002775 -0.0001665 -0.000314424 -0.000188655
1354 Glass cullet/AU U		kg	-0.000537158	0.002271088	-0.001346744 -0.001461502
1355 Nitric acid ETH U 1356 Explosives ETH U	-	kg kg	-0.000611042 -0.000749735	-1.28737E-13 -1.57958E-13	-0.000381901 -0.000229141 -0.000468584 -0.00028115
1357 Sand/AU U 1358 Steel slab /AU U		kg	-0.000873374	0.003692596	-0.002189692 -0.002376278 -0.0007105 -0.00025375
1359 Disposal, slag from MG silicon production, 0% water, to inert material landfill/0	с <u></u>	kg kg	-0.00096425 -0.001303578	-2.66454E-15 1.17997E-05	-0.0007105 -0.00025375 -0.000657765 -0.000657613
1360 Disposal, wood ash mixture, pure, 0% water, to municipal incineration/CH U 1361 Disposal, wood ash mixture, pure, 0% water, to landfarming/CH U		kg kg	-0.001368451 -0.001368451	0.000473463 0.000473463	-0.001704089 -0.000137826 -0.001704089 -0.000137826
1362 Sodium hydroxide, 50% in H2O, membrane cell, at plant/RER U		kg	-0.00152979	0.003861189	-0.002740383 -0.002650596
1363 Electronics for control units/RER S					
1364 Disposal catalyst base CH2O production 0% water to residual material land	fi	kg ka	-0.00154375 -0.001591933	-3.11818E-19 0.000670755	-0.0011375 -0.00040625
1364 Disposal, catalyst base CH2O production, 0% water, to residual material land 1365 Glass fibre/AU U		kg kg	-0.001591933 -0.001803086	0.000670755 0.007623395	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004520636 -0.004905846
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U	fi 	kg kg kg	-0.001591933 -0.001803086 -0.001803491	0.000670755 0.007623395 0.007625102	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004520636 -0.004905846 -0.004521648 -0.004906944
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1367 Glass batch 30% cullet/AU U 1368 Container glass, average recycled content, /AU U	 	kg kg kg kg kg	-0.001591933 -0.001803086 -0.001803491 -0.001803491 -0.001803491	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004520636 -0.004905846 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1367 Glass batch 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass 30% cullet/AU U	 	kg kg kg kg kg	-0.001591933 -0.001803086 -0.001803491 -0.001803491	0.000670755 0.007623395 0.007625102 0.007625102	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004520636 -0.004905846 -0.004521648 -0.004906944 -0.004521648 -0.004906944
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1367 Glass batch 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass 30% cullet/AU U 1370 Acrylonitrile-butadiene-styrene copolymer, ABS, at plant/RER S 1371 Disposal, dust, alloyed EAF steel, 15.4% water, to residual material landfill/CF	 	kg kg kg kg kg kg kg	-0.001591933 -0.001803086 -0.001803491 -0.001803491 -0.001803491 -0.001803491 -0.001938 -0.002548179	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102 0.007625102 -3.25009E-19 4.30435E-05	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004520636 -0.004905846 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.00121125 -0.00072675 -0.001418123 -0.001173099
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1367 Glass batch 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass 30% cullet/AU U 1370 Acrylonitrile-butadiene-styrene copolymer, ABS, at plant/RER S 1371 Disposal, dust, alloyed EAF steel, 15.4% water, to residual material landfill/CH 1372 Disposal, wood ash mixture, pure, 0% water, to sanitary landfill/CH U	 	kg kg kg kg kg kg	-0.001591933 -0.001803086 -0.001803491 -0.001803491 -0.001803491 -0.001803491 -0.001938	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102 0.007625102 -3.25009E-19	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004520636 -0.004906844 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.00121125 -0.00072675
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1367 Glass batch 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass 30% cullet/AU U 1370 Acrylonitrile-butadiene-styrene copolymer, ABS, at plant/RER S 1371 Disposal, dust, alloyed EAF steel, 15.4% water, to residual material landfill/CH 1372 Disposal, wood ash mixture, pure, 0% water, to sanitary landfill/CH U 1373 Disposal, polyurethane, 0.2% water, to municipal incineration/CH U 1374 Magnesium oxide, at plant/RER U	 	kg kg kg kg kg kg kg kg	-0.001591933 -0.001803086 -0.001803491 -0.001803491 -0.001803491 -0.001903491 -0.001938 -0.002548179 -0.002554874 -0.003524788 -0.003653193	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102 0.007625102 -3.25009E-19 4.30435E-05 0.001146396 0.002073422 0.001540066	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004520636 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.00121125 -0.00072675 -0.001418123 -0.001173099 -0.003418273 -0.000282996 -0.0052041 -0.00039411 -0.002902293 -0.002290966
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1367 Glass batch 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass 30% cullet/AU U 1370 Acrylonitrile-butadiene-styrene copolymer, ABS, at plant/RER S 1371 Disposal, dust, alloyed EAF steel, 15.4% water, to residual material landfill/CH 1372 Disposal, wood ash mixture, pure, 0% water, to sanitary landfill/CH U 1373 Disposal, polyurethane, 0.2% water, to municipal incineration/CH U	 	kg kg kg kg kg kg kg	-0.001591933 -0.001803086 -0.001803491 -0.001803491 -0.001803491 -0.001803491 -0.001938 -0.002548179 -0.002554874 -0.003524788	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102 -0.007625102 -3.25009E-19 4.30435E-05 0.001146396 0.002073422	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004520636 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.00121125 -0.00072675 -0.001418123 -0.001173099 -0.003418273 -0.000282996 -0.0052041 -0.00039411
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1367 Glass batch 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass 30% cullet/AU U 1370 Acrylonitrile-butadiene-styrene copolymer, ABS, at plant/RER S 1371 Disposal, dust, alloyed EAF steel, 15.4% water, to residual material landfill/CH 1372 Disposal, wood ash mixture, pure, 0% water, to sanitary landfill/CH U 1373 Disposal, polyurethane, 0.2% water, to municipal incineration/CH U 1374 Magnesium oxide, at plant/RER U 1375 Refractory, basic, packed, at plant/DE U 1376 Sodium hydroxide, 50% in H2O, mercury cell, at plant/RER U 1377 Trasmission fugitives from natural gas, 2001-02/AU U	 	kg kg kg kg kg kg kg kg kg	-0.001591933 -0.001803086 -0.001803491 -0.001803491 -0.001803491 -0.001938 -0.002548179 -0.002554874 -0.003524788 -0.003653193 -0.003845466 -0.00399974	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102 -3.25009E-19 4.30435E-05 0.001146396 0.002073422 0.001540066 0.001621122 0.00994166 0.043601509	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.00121125 -0.00072675 -0.001418123 -0.001173099 -0.003418273 -0.00282996 -0.0052041 -0.00039411 -0.002902293 -0.002290966 -0.003055045 -0.002411543 -0.007055847 -0.006824665 -0.023212696 -0.024388554
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1367 Glass batch 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass 30% cullet/AU U 1370 Acrylonitrile-butadiene-styrene copolymer, ABS, at plant/RER S 1371 Disposal, dust, alloyed EAF steel, 15.4% water, to residual material landfill/CH 1372 Disposal, wood ash mixture, pure, 0% water, to sanitary landfill/CH U 1373 Disposal, polyurethane, 0.2% water, to municipal incineration/CH U 1374 Magnesium oxide, at plant/RER U 1375 Refractory, basic, packed, at plant/DE U 1376 Sodium hydroxide, 50% in H2O, mercury cell, at plant/RER U	 	kg kg kg kg kg kg kg kg	-0.001591933 -0.001803086 -0.001803491 -0.001803491 -0.001803491 -0.001803491 -0.001938 -0.002548179 -0.002554874 -0.003524788 -0.003653193 -0.003845466 -0.003938852	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102 -3.25009E-19 4.30435E-05 0.001146396 0.002073422 0.001540066 0.001621122 0.00994166	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004520636 -0.004906844 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.00121125 -0.00072675 -0.001418123 -0.001173099 -0.003418273 -0.000282996 -0.0052041 -0.00039411 -0.002902293 -0.002299666 -0.003055045 -0.002411543 -0.007055847 -0.006824665
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1367 Glass batch 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass 30% cullet/AU U 1370 Acrylonitrile-butadiene-styrene copolymer, ABS, at plant/RER S 1371 Disposal, dust, alloyed EAF steel, 15.4% water, to residual material landfill/CH 1372 Disposal, wood ash mixture, pure, 0% water, to sanitary landfill/CH U 1373 Disposal, polyurethane, 0.2% water, to municipal incineration/CH U 1374 Magnesium oxide, at plant/RER U 1375 Refractory, basic, packed, at plant/DE U 1376 Sodium hydroxide, 50% in H2O, mercury cell, at plant/RER U 1377 Trasmission fugitives from natural gas, 2001-02/AU U 1378 Hydrogen, cracking, APME, at plant/RER U 1379 Hydrogen, liquid, at plant/RER U 1380 Polystyrene, high impact, HIPS, at plant/RER S	 	kg kg kg kg kg kg kg kg kg	-0.001591933 -0.001803086 -0.001803491 -0.001803491 -0.001803491 -0.001938 -0.002548179 -0.002554874 -0.003524788 -0.003653193 -0.003845466 -0.003938852 -0.00399974 -0.004033123 -0.004245393 -0.004245393 -0.004546875	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102 0.007625102 -3.25009E-19 4.30435E-05 0.001146396 0.002073422 0.001540066 0.001621122 0.00994166 0.043601509 0.001199911 0.001263065 -2.18843E-15	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004520636 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.00121125 -0.00072675 -0.0014118123 -0.001173099 -0.003418273 -0.000282996 -0.0052041 -0.00039411 -0.002902293 -0.002290966 -0.00355045 -0.002411543 -0.007055847 -0.006824665 -0.023212696 -0.024388554 -0.002622764 -0.002610271 -0.002760804 -0.002747653 -0.0036375 -0.000909375
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1367 Glass batch 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass 30% cullet/AU U 1370 Acrylonitrile-butadiene-styrene copolymer, ABS, at plant/RER S 1371 Disposal, dust, alloyed EAF steel, 15.4% water, to residual material landfill/CH 1372 Disposal, wood ash mixture, pure, 0% water, to sanitary landfill/CH U 1373 Disposal, polyurethane, 0.2% water, to municipal incineration/CH U 1374 Magnesium oxide, at plant/RER U 1375 Refractory, basic, packed, at plant/DE U 1376 Sodium hydroxide, 50% in H2O, mercury cell, at plant/RER U 1377 Trasmission fugitives from natural gas, 2001-02/AU U 1378 Hydrogen, cracking, APME, at plant/RER U 1379 Hydrogen, liquid, at plant/RER U 1380 Polystyrene, high impact, HIPS, at plant/RER S 1381 Hydrochloric acid, from the reaction of hydrogen with chlorine, at plant/RER U 1382 Hydrochloric acid, from Mannheim process, at plant/RER U	 	kg kg kg kg kg kg kg kg kg	-0.001591933 -0.001803086 -0.001803491 -0.001803491 -0.001803491 -0.001938 -0.002548179 -0.002554874 -0.003524788 -0.003653193 -0.003845466 -0.003938852 -0.00399974 -0.004033123 -0.004245393	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102 -3.25009E-19 4.30435E-05 0.001146396 0.002073422 0.001540066 0.001621122 0.00994166 0.043601509 0.001199911 0.001263065	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.00121125 -0.00072675 -0.001418123 -0.001173099 -0.003418273 -0.00222996 -0.00320241 -0.00229966 -0.003055045 -0.0024911543 -0.007055847 -0.00249865 -0.023212696 -0.024388554 -0.002622764 -0.002610271 -0.002760804 -0.002747653 -0.0036375 -0.01864405 -0.018644566
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1367 Glass batch 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass, average recycled content, /AU U 1369 Container glass 30% cullet/AU U 1370 Acrylonitrile-butadiene-styrene copolymer, ABS, at plant/RER S 1371 Disposal, dust, alloyed EAF steel, 15.4% water, to residual material landfill/CH 1372 Disposal, wood ash mixture, pure, 0% water, to sanitary landfill/CH U 1373 Disposal, polyurethane, 0.2% water, to municipal incineration/CH U 1374 Magnesium oxide, at plant/RER U 1375 Refractory, basic, packed, at plant/DE U 1376 Sodium hydroxide, 50% in H2O, mercury cell, at plant/RER U 1377 Trasmission fugitives from natural gas, 2001-02/AU U 1378 Hydrogen, cracking, APME, at plant/RER U 1380 Polystyrene, high impact, HIPS, at plant/RER S 1381 Hydrochloric acid, from the reaction of hydrogen with chlorine, at plant/RER U 1382 Hydrochloric acid, from Mannheim process, at plant/RER U 1383 PVC, Polyvinyl chloride/AU U	 	kg kg kg kg kg kg kg kg kg kg kg	-0.001591933 -0.001803086 -0.001803491 -0.001803491 -0.001803491 -0.001938 -0.002548179 -0.002554874 -0.003524788 -0.003653193 -0.003653193 -0.003845466 -0.00399974 -0.004033123 -0.004245393 -0.004245393 -0.004245885 -0.00616885 -0.00616885 -0.006179439	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102 -3.25009E-19 4.30435E-05 0.001146396 0.002073422 0.001540066 0.001621122 0.00994166 0.043601509 0.001199911 0.001263065 -2.18843E-15 0.030920366 0.40171E-08	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.00121125 -0.00072675 -0.001418123 -0.001173099 -0.0052041 -0.002282966 -0.003055045 -0.002290966 -0.003055045 -0.002411543 -0.007055847 -0.006824665 -0.023212696 -0.024388554 -0.002622764 -0.002610271 -0.0036375 -0.00099375 -0.01864405 -0.018445166 -0.01864405 -0.018445166
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1367 Glass batch 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass 30% cullet/AU U 1370 Acrylonitrile-butadiene-styrene copolymer, ABS, at plant/RER S 1371 Disposal, dust, alloyed EAF steel, 15.4% water, to residual material landfill/CH 1372 Disposal, wood ash mixture, pure, 0% water, to sanitary landfill/CH U 1373 Disposal, polyurethane, 0.2% water, to municipal incineration/CH U 1374 Magnesium oxide, at plant/RER U 1375 Refractory, basic, packed, at plant/DE U 1376 Sodium hydroxide, 50% in H2O, mercury cell, at plant/RER U 1377 Trasmission fugitives from natural gas, 2001-02/AU U 1378 Hydrogen, cracking, APME, at plant/RER U 1379 Hydrogen, liquid, at plant/RER U 1380 Polystyrene, high impact, HIPS, at plant/RER S 1381 Hydrochloric acid, from the reaction of hydrogen with chlorine, at plant/RER U 1382 Hydrochloric acid, from Mannheim process, at plant/RER U	 	kg kg kg kg kg kg kg kg kg kg	-0.001591933 -0.001803086 -0.001803491 -0.001803491 -0.001803491 -0.001938 -0.002548179 -0.002554874 -0.003524788 -0.003524788 -0.003653193 -0.003845466 -0.00399852 -0.00399974 -0.004033123 -0.004245393 -0.004546875 -0.00616885 -0.00616885	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102 0.007625102 -3.25009E-19 4.30435E-05 0.001146396 0.002073422 0.001540066 0.001621122 0.00994166 0.043601509 0.001199911 0.001263065 -2.18843E-15 0.30920366 0.30920366 9.40171E-08 9.42048E-08 0.01804294	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004521636 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.00121125 -0.00072675 -0.001418123 -0.001173099 -0.0032041 -0.002922936 -0.0052041 -0.00290966 -0.003055045 -0.002411543 -0.007055847 -0.006824665 -0.023212696 -0.024388554 -0.002622764 -0.002610271 -0.0036375 -0.00909375 -0.01864405 -0.018445166 -0.005613722 -0.000566942 -0.002602495 -0.002566942 -0.012805529 -0.012385963
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1367 Glass batch 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass 30% cullet/AU U 1370 Acrylonitrile-butadiene-styrene copolymer, ABS, at plant/RER S 1371 Disposal, dust, alloyed EAF steel, 15.4% water, to residual material landfill/CH 1372 Disposal, wood ash mixture, pure, 0% water, to sanitary landfill/CH U 1373 Disposal, polyurethane, 0.2% water, to municipal incineration/CH U 1374 Magnesium oxide, at plant/RER U 1375 Refractory, basic, packed, at plant/DE U 1376 Sodium hydroxide, 50% in H2O, mercury cell, at plant/RER U 1377 Trasmission fugitives from natural gas, 2001-02/AU U 1378 Hydrogen, cracking, APME, at plant/RER U 1380 Polystyrene, high impact, HIPS, at plant/RER S 1381 Hydrochloric acid, from the reaction of hydrogen with chlorine, at plant/RER U 1382 Hydrochloric acid, from Mannheim process, at plant/RER U 1383 PVC, Polyvinyl chloride/AU U 1384 Vinylchloride Monomer APME/AU S 1385 Sodium hydroxide, 50% in H2O, production mix, at plant/RER U 1386 Charcoal, at plant/GLO U	 	kg kg kg k	-0.001591933 -0.001803086 -0.001803491 -0.001803491 -0.001803491 -0.001938 -0.002548179 -0.002554874 -0.003524788 -0.003653193 -0.003845466 -0.003938852 -0.00399974 -0.004033123 -0.004245393 -0.004546875 -0.00616885 -0.006179439 -0.006179439 -0.006197798 -0.007148552 -0.008593963	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102 	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.00121125 -0.00072675 -0.001418123 -0.001173099 -0.003418273 -0.000282996 -0.0052041 -0.00039411 -0.00290293 -0.002290966 -0.003055045 -0.002411543 -0.007055847 -0.006824665 -0.023212696 -0.024388554 -0.002622764 -0.002610271 -0.002760804 -0.002747653 -0.0036375 -0.00909375 -0.01864405 -0.018445166 -0.01864405 -0.018445166 -0.005613722 -0.000566841 -0.00562495 -0.0012385963 -0.004490698
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1367 Glass batch 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass, average recycled content, /AU U 1369 Container glass, average recycled content, /AU U 1370 Acrylonitrile-butadiene-styrene copolymer, ABS, at plant/RER S 1371 Disposal, dust, alloyed EAF steel, 15.4% water, to residual material landfill/CH 1372 Disposal, wood ash mixture, pure, 0% water, to sanitary landfill/CH U 1373 Disposal, polyurethane, 0.2% water, to municipal incineration/CH U 1374 Magnesium oxide, at plant/RER U 1375 Refractory, basic, packed, at plant/DE U 1376 Sodium hydroxide, 50% in H2O, mercury cell, at plant/RER U 1377 Trasmission fugitives from natural gas, 2001-02/AU U 1378 Hydrogen, cracking, APME, at plant/RER U 1379 Hydrogen, liquid, at plant/RER U 1380 Polystyrene, high impact, HIPS, at plant/RER S 1381 Hydrochloric acid, from the reaction of hydrogen with chlorine, at plant/RER U 1382 Hydrochloric acid, from Mannheim process, at plant/RER U 1383 PVC, Polyvinyl chloride/AU U 1384 Vinylchloride Monomer APME/AU S 1385 Sodium hydroxide, 50% in H2O, production mix, at plant/RER U 1386 Charcoal, at plant/GLO U 1387 Petrol, unleaded, at refinery/RER U 1388 Petrol, unleaded, at regional storage/RER U	 	kg kg kg k	-0.001591933 -0.001803086 -0.001803491 -0.001803491 -0.001803491 -0.001938 -0.002548179 -0.003524788 -0.003524788 -0.003653193 -0.003653193 -0.003845466 -0.00399974 -0.004033123 -0.004245393 -0.004245393 -0.00456875 -0.00616885 -0.00616885 -0.006179439 -0.006179439 -0.006191798 -0.006191798	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102 0.007625102 -3.25009E-19 4.30435E-05 0.001146396 0.002073422 0.001540066 0.001621122 0.00994166 0.043601509 0.001199911 0.001263065 -2.18843E-15 0.030920366 9.40171E-08 9.42048E-08 0.01804294 0.000390003 0.0015055 0.001459612	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.00121125 -0.00072675 -0.001418123 -0.001173099 -0.0052041 -0.00229966 -0.003018273 -0.00229966 -0.003055045 -0.002491543 -0.002622764 -0.002491543 -0.002622764 -0.002491653 -0.0036375 -0.0036824665 -0.01864405 -0.018445166 -0.01864405 -0.018445166 -0.005613722 -0.000566942 -0.012805529 -0.012385963 -0.009747928 -0.000760414 -0.009737458 -0.0007606414
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1367 Glass batch 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass, average recycled content, /AU U 1369 Container glass 30% cullet/AU U 1370 Acrylonitrile-butadiene-styrene copolymer, ABS, at plant/RER S 1371 Disposal, dust, alloyed EAF steel, 15.4% water, to residual material landfill/CH 1372 Disposal, wood ash mixture, pure, 0% water, to sanitary landfill/CH U 1373 Disposal, polyurethane, 0.2% water, to municipal incineration/CH U 1374 Magnesium oxide, at plant/RER U 1375 Refractory, basic, packed, at plant/DE U 1376 Sodium hydroxide, 50% in H2O, mercury cell, at plant/RER U 1377 Trasmission fugitives from natural gas, 2001-02/AU U 1378 Hydrogen, cracking, APME, at plant/RER U 1379 Hydrogen, liquid, at plant/RER U 1380 Polystyrene, high impact, HIPS, at plant/RER S 1381 Hydrochloric acid, from the reaction of hydrogen with chlorine, at plant/RER U 1382 Hydrochloric acid, from Mannheim process, at plant/RER U 1383 PVC, Polyvinyl chloride/AU U 1384 Vinylchloride Monomer APME/AU S 1385 Sodium hydroxide, 50% in H2O, production mix, at plant/RER U 1386 Charcoal, at plant/GLO U 1387 Petrol, unleaded, at refinery/RER U 1388 Petrol, unleaded, at regional storage/RER U	 	kg kg kg k	-0.001591933 -0.001803086 -0.001803491 -0.001803491 -0.001803491 -0.001803491 -0.001938 -0.002548179 -0.002554874 -0.003524788 -0.003653193 -0.003845466 -0.00399974 -0.004033123 -0.004245393 -0.004245393 -0.004546875 -0.00616885 -0.006179439 -0.006191798 -0.007148552 -0.007148552 -0.008593963 -0.009002842 -0.0090034206 -0.009609594	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102 0.007625102 -3.25009E-19 4.30435E-05 0.001146396 0.001540066 0.001621122 0.00994166 0.043601509 0.001199911 0.001263065 -2.18843E-15 0.030920366 9.40171E-08 9.42048E-08 0.01804294 0.000390003 0.0015055 0.001459612 0.00147693	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.00121125 -0.00072675 -0.001418123 -0.001173099 -0.0052041 -0.00222996 -0.00301857045 -0.002249966 -0.003055045 -0.002411543 -0.007055847 -0.006824665 -0.023212696 -0.024388554 -0.002622764 -0.002610271 -0.0036375 -0.00369375 -0.01864405 -0.018445166 -0.01864405 -0.018445166 -0.0186495 -0.000566811 -0.005613722 -0.000568942 -0.01280529 -0.012385963 -0.004493267 -0.000760414 -0.009737458 -0.000756361 -0.009905683 -0.000756661
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1367 Glass batch 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass 30% cullet/AU U 1370 Acrylonitrile-butadiene-styrene copolymer, ABS, at plant/RER S 1371 Disposal, dust, alloyed EAF steel, 15.4% water, to residual material landfill/CH 1372 Disposal, wood ash mixture, pure, 0% water, to sanitary landfill/CH U 1373 Disposal, polyurethane, 0.2% water, to municipal incineration/CH U 1374 Magnesium oxide, at plant/RER U 1375 Refractory, basic, packed, at plant/DE U 1376 Sodium hydroxide, 50% in H2O, mercury cell, at plant/RER U 1377 Trasmission fugitives from natural gas, 2001-02/AU U 1378 Hydrogen, cracking, APME, at plant/RER U 1379 Hydrogen, liquid, at plant/RER U 1380 Polystyrene, high impact, HIPS, at plant/RER S 1381 Hydrochloric acid, from the reaction of hydrogen with chlorine, at plant/RER U 1382 Hydrochloric acid, from Mannheim process, at plant/RER U 1383 PVC, Polyvinyl chloride/AU U 1384 Vinylchloride Monomer APME/AU S 1385 Sodium hydroxide, 50% in H2O, production mix, at plant/RER U 1387 Petrol, unleaded, at refinery/RER U 1388 Petrol, unleaded, at regional storage/RER U 1389 Petrol, two-stroke blend, at regional storage/RER U 1390 Petroleum coke, at refinery/RER U 1391 Disposal, concrete, 5% water, to inert material landfill/CH U	 	kg kg kg k	-0.001591933 -0.001803086 -0.001803491 -0.001803491 -0.001803491 -0.001803491 -0.001938 -0.002548179 -0.002554874 -0.003524788 -0.003653193 -0.003845466 -0.00399974 -0.004033123 -0.004245393 -0.004546875 -0.00616885 -0.006179439 -0.006191798 -0.006191798 -0.007148552 -0.008593963 -0.009002842 -0.0090034206	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102 0.007625102 -3.25009E-19 4.30435E-05 0.001146396 0.002073422 0.001540066 0.001621122 0.00994166 0.043601509 0.001199911 0.001263065 -2.18843E-15 0.030920366 9.40171E-08 9.42048E-08 0.01804294 0.000390003 0.0015055 0.001459612	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.00121125 -0.00072675 -0.001418123 -0.001173099 -0.003418273 -0.002829966 -0.0032041 -0.00292939 -0.0052041 -0.00299966 -0.003055045 -0.002411543 -0.007055847 -0.006824665 -0.023212696 -0.024388554 -0.002622764 -0.002610271 -0.002760804 -0.002747653 -0.0036375 -0.000990375 -0.01864405 -0.018445166 -0.01864405 -0.018445166 -0.01864405 -0.018445166 -0.005613722 -0.000565811 -0.00562495 -0.002568942 -0.012805529 -0.012385963 -0.004493267 -0.004490698 -0.009737458 -0.000756361 -0.009905683 -0.000756361 -0.009905683 -0.000751604 -0.01620592 -0.015466262 -0.041679659 -0.003843935
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1367 Glass batch 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass 30% cullet/AU U 1370 Acrylonitrile-butadiene-styrene copolymer, ABS, at plant/RER S 1371 Disposal, dust, alloyed EAF steel, 15.4% water, to residual material landfill/CH 1372 Disposal, wood ash mixture, pure, 0% water, to sanitary landfill/CH U 1373 Disposal, polyurethane, 0.2% water, to municipal incineration/CH U 1374 Magnesium oxide, at plant/RER U 1375 Refractory, basic, packed, at plant/DE U 1376 Sodium hydroxide, 50% in H2O, mercury cell, at plant/RER U 1377 Trasmission fugitives from natural gas, 2001-02/AU U 1378 Hydrogen, cracking, APME, at plant/RER U 1379 Hydrogen, liquid, at plant/RER U 1380 Polystyrene, high impact, HIPS, at plant/RER S 1381 Hydrochloric acid, from the reaction of hydrogen with chlorine, at plant/RER U 1382 Hydrochloric acid, from Mannheim process, at plant/RER U 1383 PVC, Polyvinyl chloride/AU U 1384 Vinylchloride Monomer APME/AU S 1385 Sodium hydroxide, 50% in H2O, production mix, at plant/RER U 1386 Charcoal, at plant/GLO U 1387 Petrol, unleaded, at regional storage/RER U 1389 Petrol, unleaded, at regional storage/RER U 1390 Petroleum coke, at refinery/RER U 1391 Disposal, concrete, 5% water, to inert material landfill/CH U 1392 Polystyrene, high impact, HIPS, at plant/RER U	 	kg kg kg k	-0.001591933 -0.001803086 -0.001803491 -0.001803491 -0.001803491 -0.001938 -0.002548179 -0.002554874 -0.003524788 -0.003653193 -0.003653193 -0.003845466 -0.00399974 -0.004033123 -0.004245393 -0.004245393 -0.00616885 -0.00616885 -0.006179439 -0.00616885 -0.006191798 -0.007148552 -0.008593963 -0.009002842 -0.0090034206 -0.00909594 -0.010752346 -0.01785044 -0.01155994	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102 0.007625102 -3.25009E-19 4.30435E-05 0.001146396 0.001540066 0.001621122 0.00994166 0.043601509 0.001199911 0.001263065 -2.18843E-15 0.30920366 0.30920366 0.30920366 0.40171E-08 9.42048E-08 0.01804294 0.000390003 0.0015055 0.001459612 0.001457612 0.001477693 0.020919835 0.03473855 2.8203E-07	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004521636 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.0004906944 -0.00121125 -0.00072675 -0.001418123 -0.001173099 -0.0032041 -0.002922936 -0.0052041 -0.00290966 -0.003055045 -0.002411543 -0.007055847 -0.006824665 -0.023212696 -0.024388554 -0.002622764 -0.002610271 -0.00260804 -0.002747653 -0.0036375 -0.009090375 -0.01864405 -0.018445166 -0.005613722 -0.000565811 -0.00562495 -0.002568912 -0.0012805529 -0.012385963 -0.004493267 -0.004490698 -0.00973747928 -0.000760414 -0.0097374788 -0.000756361 -0.009905683 -0.000751604 -0.01620592 -0.015466262 -0.041679659 -0.003843935 -0.011156267 -9.43041E-09
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1367 Glass batch 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass 30% cullet/AU U 1370 Acrylonitrile-butadiene-styrene copolymer, ABS, at plant/RER S 1371 Disposal, dust, alloyed EAF steel, 15.4% water, to residual material landfill/CH 1372 Disposal, wood ash mixture, pure, 0% water, to sanitary landfill/CH U 1373 Disposal, polyurethane, 0.2% water, to municipal incineration/CH U 1374 Magnesium oxide, at plant/RER U 1375 Refractory, basic, packed, at plant/DE U 1376 Sodium hydroxide, 50% in H2O, mercury cell, at plant/RER U 1377 Trasmission fugitives from natural gas, 2001-02/AU U 1378 Hydrogen, cracking, APME, at plant/RER U 1379 Hydrogen, liquid, at plant/RER U 1380 Polystyrene, high impact, HIPS, at plant/RER S 1381 Hydrochloric acid, from the reaction of hydrogen with chlorine, at plant/RER U 1382 Hydrochloric acid, from Mannheim process, at plant/RER U 1383 PVC, Polyvinyl chloride/AU U 1384 Vinylchloride Monomer APME/AU S 1385 Sodium hydroxide, 50% in H2O, production mix, at plant/RER U 1386 Charcoal, at plant/GLO U 1387 Petrol, unleaded, at regional storage/RER U 1389 Petrol, unleaded, at regional storage/RER U 1390 Petroleum coke, at refinery/RER U 1391 Disposal, concrete, 5% water, to inert material landfill/CH U 1392 Polystyrene, high impact, HIPS, at plant/RER U 1393 Hydrochloric acid, 30% in H2O, at plant/RER U 1394 Steam, from natural gas, in kg/AU U	 -	kg kg kg k	-0.001591933 -0.001803086 -0.001803491 -0.001803491 -0.001803491 -0.001938 -0.002548179 -0.002554874 -0.003524788 -0.003524788 -0.003653193 -0.003845466 -0.003938852 -0.00399974 -0.004033123 -0.004245393 -0.004245393 -0.00616885 -0.00616885 -0.006179439 -0.006191798 -0.007148552 -0.008593963 -0.009002842 -0.009034206 -0.009609594 -0.010752346 -0.017552346 -0.01755994 -0.0123377 -0.014555626	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102 -0.007625102 -3.25009E-19 4.30435E-05 0.001146396 0.002073422 0.001540066 0.001621122 0.00994166 0.043601509 0.001199911 0.001263065 -2.18843E-15 0.030920366 9.40171E-08 9.42048E-08 0.01804294 0.000390003 0.0015055 0.001459612 0.00147985 0.00147985 0.00147983 0.020919835 0.03473855 2.8203E-07 0.061840732 0.005084144	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.00121125 -0.00072675 -0.001418123 -0.001173099 -0.0052041 -0.000282996 -0.0030418273 -0.00229966 -0.003055045 -0.002499665 -0.023212696 -0.024388554 -0.002622764 -0.002610271 -0.002760804 -0.002747653 -0.01864405 -0.018445166 -0.01864405 -0.018445166 -0.01869529 -0.012385963 -0.00493267 -0.000566942 -0.012805529 -0.012385963 -0.009747928 -0.000756361 -0.009905683 -0.000751604 -0.01620592 -0.015466262 -0.041679659 -0.003843935 -0.01113668 -0.00833297
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1367 Glass batch 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass 30% cullet/AU U 1370 Acrylonitrile-butadiene-styrene copolymer, ABS, at plant/RER S 1371 Disposal, dust, alloyed EAF steel, 15.4% water, to residual material landfill/CH 1372 Disposal, wood ash mixture, pure, 0% water, to sanitary landfill/CH U 1373 Disposal, polyurethane, 0.2% water, to municipal incineration/CH U 1374 Magnesium oxide, at plant/RER U 1375 Refractory, basic, packed, at plant/DE U 1376 Sodium hydroxide, 50% in H2O, mercury cell, at plant/RER U 1377 Trasmission fugitives from natural gas, 2001-02/AU U 1378 Hydrogen, cracking, APME, at plant/RER U 1379 Hydrogen, liquid, at plant/RER U 1380 Polystyrene, high impact, HIPS, at plant/RER S 1381 Hydrochloric acid, from the reaction of hydrogen with chlorine, at plant/RER U 1382 Hydrochloric acid, from Mannheim process, at plant/RER U 1383 PVC, Polyvinyl chloride/AU U 1384 Vinylchloride Monomer APME/AU S 1385 Sodium hydroxide, 50% in H2O, production mix, at plant/RER U 1386 Charcoal, at plant/GLO U 1387 Petrol, unleaded, at refinery/RER U 1389 Petrol, unleaded, at regional storage/RER U 1390 Petroleum coke, at refinery/RER U 1391 Disposal, concrete, 5% water, to inert material landfill/CH U 1392 Polystyrene, high impact, HIPS, at plant/RER U 1393 Hydrochloric acid, 30% in H2O, at plant/RER U 1394 Steam, from natural gas, in kg/AU U 1395 Disposal, slag, unalloyed electr. steel, 0% water, to residual material landfill/C	 -	kg k	-0.001591933 -0.001803491 -0.001803491 -0.001803491 -0.001803491 -0.001938 -0.002548179 -0.002554874 -0.003524788 -0.003524788 -0.003653193 -0.003845466 -0.00399974 -0.004033123 -0.004245393 -0.004245393 -0.004245393 -0.00616885 -0.00616885 -0.006179439 -0.007148552 -0.008593963 -0.00902842 -0.009002842 -0.009002842 -0.009002842 -0.010785044 -0.011755994 -0.0123377 -0.014555626 -0.021311427	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102 0.007625102 -3.25009E-19 4.30435E-05 0.001146396 0.001540066 0.001621122 0.00994166 0.043601509 0.001199911 0.001263065 -2.18843E-15 0.030920366 9.40171E-08 9.42048E-08 0.01804294 0.000390003 0.0015055 0.001459612 0.00147693 0.020919835 0.03473855 2.8203E-07 0.061840732 0.005084144 0.010084353	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.00121125 -0.00072675 -0.001418123 -0.001173099 -0.0052041 -0.00229966 -0.0030155045 -0.00229966 -0.003055045 -0.002490665 -0.023212696 -0.024388554 -0.002622764 -0.002610271 -0.002760804 -0.002747653 -0.01864405 -0.018445166 -0.01864405 -0.018445166 -0.01864405 -0.018445166 -0.01864405 -0.00265811 -0.00562495 -0.002565811 -0.00562995 -0.0012385963 -0.004493267 -0.000760414 -0.009737458 -0.000760414 -0.009737458 -0.000756361 -0.009905683 -0.000756361 -0.009905683 -0.000756361 -0.009905683 -0.000756361 -0.00372881 -0.0038383935 -0.011156267 -9.43041E-09 -0.0372881 -0.008833297 -0.017609561 -0.00833297
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1367 Glass batch 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass 30% cullet/AU U 1370 Acrylonitrile-butadiene-styrene copolymer, ABS, at plant/RER S 1371 Disposal, dust, alloyed EAF steel, 15.4% water, to residual material landfill/CH 1372 Disposal, wood ash mixture, pure, 0% water, to sanitary landfill/CH U 1373 Disposal, polyurethane, 0.2% water, to municipal incineration/CH U 1374 Magnesium oxide, at plant/RER U 1375 Refractory, basic, packed, at plant/DE U 1376 Sodium hydroxide, 50% in H2O, mercury cell, at plant/RER U 1377 Trasmission fugitives from natural gas, 2001-02/AU U 1378 Hydrogen, cracking, APME, at plant/RER U 1379 Hydrogen, liquid, at plant/RER U 1380 Polystyrene, high impact, HIPS, at plant/RER S 1381 Hydrochloric acid, from the reaction of hydrogen with chlorine, at plant/RER U 1382 Hydrochloric acid, from Mannheim process, at plant/RER U 1383 PVC, Polyvinyl chloride/AU U 1384 Vinylchloride Monomer APME/AU S 1385 Sodium hydroxide, 50% in H2O, production mix, at plant/RER U 1386 Charcoal, at plant/GLO U 1387 Petrol, unleaded, at regional storage/RER U 1389 Petrol, unleaded, at regional storage/RER U 1390 Petroleum coke, at refinery/RER U 1391 Disposal, concrete, 5% water, to inert material landfill/CH U 1392 Polystyrene, high impact, HIPS, at plant/RER U 1393 Hydrochloric acid, 30% in H2O, at plant/RER U 1394 Steam, from natural gas, in kg/AU U 1395 Disposal, slag, unalloyed electr. steel, 0% water, to residual material landfill/C	 -	kg k	-0.001591933 -0.001803086 -0.001803491 -0.001803491 -0.001803491 -0.001803491 -0.001938 -0.002548179 -0.002554874 -0.003524788 -0.003653193 -0.003653193 -0.0039974 -0.004933123 -0.004245393 -0.004245393 -0.004546875 -0.00616885 -0.006191798 -0.007148552 -0.008593963 -0.009002842 -0.009002842 -0.0090034206 -0.0090034206 -0.0090594 -0.01155994 -0.011555626 -0.021311427 -0.030761792 -0.030875	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102 0.007625102 -3.25009E-19 4.30435E-05 0.001146396 0.001540066 0.001621122 0.00994166 0.043601509 0.001199911 0.001263065 -2.18843E-15 0.030920366 9.40171E-08 9.42048E-08 0.01804294 0.000390003 0.0015055 0.001459612 0.001047693 0.020919835 0.03473855 2.8203E-07 0.061840732 0.005084144 0.010084353 0.023817453 8.32667E-17	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.00121125 -0.00072675 -0.001418123 -0.001173099 -0.0052041 -0.002829966 -0.0032041 -0.00290966 -0.003055045 -0.002411543 -0.007055847 -0.006824665 -0.023212696 -0.024388554 -0.002622764 -0.002610271 -0.005613722 -0.009909375 -0.01864405 -0.018445166 -0.0186495 -0.00366942 -0.012805529 -0.012385963 -0.004493267 -0.000756361 -0.009737458 -0.000756361 -0.009905683 -0.000751604 -0.01620592 -0.015466262 -0.041679659 -0.003843935 -0.011156267 -9.43041E-09 -0.03786921 -0.003878092 -0.0050701153 -0.003878092 -0.002275 -0.008125
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1367 Glass batch 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass 30% cullet/AU U 1370 Acrylonitrile-butadiene-styrene copolymer, ABS, at plant/RER S 1371 Disposal, dust, alloyed EAF steel, 15.4% water, to residual material landfill/CH 1372 Disposal, wood ash mixture, pure, 0% water, to sanitary landfill/CH U 1373 Disposal, polyurethane, 0.2% water, to municipal incineration/CH U 1374 Magnesium oxide, at plant/RER U 1375 Refractory, basic, packed, at plant/DE U 1376 Sodium hydroxide, 50% in H2O, mercury cell, at plant/RER U 1377 Trasmission fugitives from natural gas, 2001-02/AU U 1378 Hydrogen, cracking, APME, at plant/RER U 1379 Hydrogen, liquid, at plant/RER U 1380 Polystyrene, high impact, HIPS, at plant/RER S 1381 Hydrochloric acid, from the reaction of hydrogen with chlorine, at plant/RER U 1382 Hydrochloric acid, from Mannheim process, at plant/RER U 1383 PVC, Polyvinyl chloride/AU U 1384 Vinylchloride Monomer APME/AU S 1385 Sodium hydroxide, 50% in H2O, production mix, at plant/RER U 1386 Charcoal, at plant/GLO U 1387 Petrol, unleaded, at regional storage/RER U 1389 Petrol, unleaded, at regional storage/RER U 1390 Petroleum coke, at refinery/RER U 1391 Disposal, concrete, 5% water, to inert material landfill/CH U 1392 Polystyrene, high impact, HIPS, at plant/RER U 1393 Hydrochloric acid, 30% in H2O, at plant/RER U 1394 Steam, from natural gas, in kg/AU U 1395 Disposal, slag, unalloyed electr. steel, 0% water, to residual material landfill/C	 -	kg k	-0.001591933 -0.001803086 -0.001803491 -0.001803491 -0.001803491 -0.001803491 -0.001938 -0.002548179 -0.002554874 -0.003524788 -0.003653193 -0.003845466 -0.00399974 -0.004033123 -0.004546875 -0.00616885 -0.0061885 -0.006191798 -0.006191798 -0.007148552 -0.008593963 -0.00902842 -0.009002842 -0.0090034206 -0.0090034206 -0.009609594 -0.011155994 -0.0123377 -0.014555626 -0.021311427 -0.030761792	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102 0.007625102 -3.25009E-19 4.30435E-05 0.001146396 0.001540066 0.001621122 0.00994166 0.043601509 0.001199911 0.001263065 -2.18843E-15 0.30920366 0.30920366 0.30920366 0.30920366 0.30920366 0.01459612 0.0014771E-08 9.42048E-08 0.01804294 0.000390003 0.0015055 0.001459612 0.001047693 0.020919835 0.03473855 2.8203E-07 0.061840732 0.005084144 0.010084353 0.023817453 8.32667E-17 0.000315495	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.00121125 -0.00072675 -0.001418123 -0.001173099 -0.0052041 -0.002929966 -0.0032041 -0.002929966 -0.003055045 -0.002411543 -0.007055847 -0.006824665 -0.023212696 -0.024388554 -0.002622764 -0.002610271 -0.002760804 -0.002747653 -0.0036375 -0.009099375 -0.01864405 -0.018445166 -0.01864405 -0.018445166 -0.005613722 -0.00566942 -0.012805529 -0.012385963 -0.004493267 -0.004490698 -0.009737458 -0.000756361 -0.009737458 -0.000756361 -0.009737458 -0.000756361 -0.009737458 -0.000756361 -0.009737458 -0.000756361 -0.009737458 -0.000756361 -0.009737458 -0.000756361 -0.009737458 -0.000756361 -0.009737458 -0.000756361 -0.009737458 -0.000756361 -0.011156267 -9.43041E-09 -0.0372881 -0.036890332 -0.0113068 -0.03878092 -0.008125 -0.0016440622 -0.016436715
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1367 Glass batch 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass 30% cullet/AU U 1370 Acrylonitrile-butadiene-styrene copolymer, ABS, at plant/RER S 1371 Disposal, dust, alloyed EAF steel, 15.4% water, to residual material landfill/CH 1372 Disposal, wood ash mixture, pure, 0% water, to sanitary landfill/CH U 1373 Disposal, polyurethane, 0.2% water, to municipal incineration/CH U 1374 Magnesium oxide, at plant/RER U 1375 Refractory, basic, packed, at plant/DE U 1376 Sodium hydroxide, 50% in H2O, mercury cell, at plant/RER U 1377 Trasmission fugitives from natural gas, 2001-02/AU U 1378 Hydrogen, cracking, APME, at plant/RER U 1380 Polystyrene, high impact, HIPS, at plant/RER S 1381 Hydrochloric acid, from the reaction of hydrogen with chlorine, at plant/RER U 1382 Hydrochloric acid, from Mannheim process, at plant/RER U 1383 PVC, Polyvinyl chloride/AU U 1384 Vinylchloride Monomer APME/AU S 1385 Sodium hydroxide, 50% in H2O, production mix, at plant/RER U 1386 Charcoal, at plant/GLO U 1387 Petrol, unleaded, at regional storage/RER U 1389 Petrol, unleaded, at regional storage/RER U 1390 Petroleum coke, at refinery/RER U 1391 Disposal, concrete, 5% water, to inent material landfill/CH U 1392 Polystyrene, high impact, HIPS, at plant/RER U 1393 Hydrochloric acid, 30% in H2O, at plant/RER U 1394 Steam, from natural gas, in kg/AU U 1395 Disposal, slag, unalloyed electr. steel, 0% water, to residual material landfill/C 1396 Methanol, at plant/GLO U 1397 Polyurethane, flexible foam, at plant/RER U 1399 Disposal, hard coal ash, 0% water, to residual material landfill/PL U 1400 Formaldehyde, production mix, at plant/RER U	 -	kg k	-0.001591933 -0.001803086 -0.001803491 -0.001803491 -0.001803491 -0.001803491 -0.001938 -0.002548179 -0.002554874 -0.003524788 -0.003653193 -0.003845466 -0.00399974 -0.004033123 -0.004245393 -0.004245393 -0.00616885 -0.00616885 -0.006179439 -0.006179439 -0.006179439 -0.006179439 -0.006179439 -0.006197798 -0.006197798 -0.007148552 -0.00902842 -0.00903406 -0.00903406 -0.001752346 -0.01752346 -0.01155994 -0.01155994 -0.0113377 -0.014555626 -0.021311427 -0.030761792 -0.030761792 -0.030761792 -0.030761792 -0.030761792 -0.030761792 -0.030761792 -0.030761792 -0.030761792 -0.030761792 -0.030761792	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102 0.007625102 -0.007625102 -0.007625102 -0.007625102 -0.007625102 -0.007625102 -0.001146396 0.001540066 0.001540066 0.001621122 0.00994166 0.043601509 0.001199911 0.001263065 -2.18843E-15 0.030920366 9.40171E-08 9.42048E-08 0.01804294 0.000390003 0.0015055 0.001459612 0.001047693 0.020919835 0.03473855 2.8203E-07 0.061840732 0.005084144 0.010084353 0.023817453 8.32667E-17 0.000315495 0.012834644 0.012834644 0.012834644	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.00121125 -0.00173099 -0.003418273 -0.0022996 -0.0035045 -0.0022996 -0.003055045 -0.00249966 -0.003055045 -0.00249966 -0.003212696 -0.024388554 -0.002622764 -0.002610271 -0.002760804 -0.002747653 -0.01864405 -0.018445166 -0.01864405 -0.018445166 -0.0186495 -0.002668942 -0.009747928 -0.000566942 -0.009747928 -0.0007566941 -0.009737458 -0.0007566941 -0.009905683 -0.0007566941 -0.009905683 -0.0007566941 -0.009905683 -0.0007566941 -0.009905683 -0.0007566041 -0.009905683 -0.0007566041 -0.009905683 -0.0007566041 -0.009905683 -0.0007566041 -0.01620592 -0.015466262 -0.041679659 -0.003878092 -0.017609561 -0.003878092 -0.0176440622 -0.016436715 -0.025533278 -0.020808026 -0.044770249 -0.003372038
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1367 Glass batch 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass 30% cullet/AU U 1370 Acrylonitrile-butadiene-styrene copolymer, ABS, at plant/RER S 1371 Disposal, dust, alloyed EAF steel, 15.4% water, to residual material landfill/CH 1372 Disposal, wood ash mixture, pure, 0% water, to sanitary landfill/CH U 1373 Disposal, polyurethane, 0.2% water, to municipal incineration/CH U 1374 Magnesium oxide, at plant/RER U 1375 Refractory, basic, packed, at plant/DE U 1376 Sodium hydroxide, 50% in H2O, mercury cell, at plant/RER U 1377 Trasmission fugitives from natural gas, 2001-02/AU U 1378 Hydrogen, cracking, APME, at plant/RER U 1379 Hydrogen, liquid, at plant/RER U 1380 Polystyrene, high impact, HIPS, at plant/RER S 1381 Hydrochloric acid, from the reaction of hydrogen with chlorine, at plant/RER U 1382 Hydrochloric acid, from Mannheim process, at plant/RER U 1383 PVC, Polyvinyl chloride/AU U 1384 Vinylchloride Monomer APME/AU S 1385 Sodium hydroxide, 50% in H2O, production mix, at plant/RER U 1386 Charcoal, at plant/GLO U 1387 Petrol, unleaded, at refinery/RER U 1389 Petrol, unleaded, at regional storage/RER U 1399 Petroleum coke, at refinery/RER U 1391 Disposal, concrete, 5% water, to inert material landfill/CH U 1392 Polystyrene, high impact, HIPS, at plant/RER U 1393 Hydrochloric acid, 30% in H2O, at plant/RER U 1394 Steam, from natural gas, in kg/AU U 1395 Disposal, slag, unalloyed electr. steel, 0% water, to residual material landfill/CH 1396 Methanol, at plant/GLO U 1397 Polyurethane, flexible foam, at plant/RER U 1399 Disposal, hard coal ash, 0% water, to residual material landfill/PL U 1400 Formaldehyde, production mix, at plant/RER U 1401 Melamine, at plant/RER U	 -	kg k	-0.001591933 -0.001803491 -0.001803491 -0.001803491 -0.001803491 -0.001803491 -0.001938 -0.002548179 -0.002554874 -0.003524788 -0.003653193 -0.003845466 -0.00399974 -0.004033123 -0.004245393 -0.004245393 -0.004245393 -0.00616885 -0.0061885 -0.0061979439 -0.0061979439 -0.007148552 -0.008593963 -0.00902842 -0.00902842 -0.009034206 -0.009609594 -0.011755994 -0.011755944 -0.011755994 -0.0123377 -0.014555626 -0.021311427 -0.030761792 -0.030875 -0.032561843 -0.03350666 -0.033870912 -0.036017164	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102 0.007625102 -3.25009E-19 4.30435E-05 0.001146396 0.001540066 0.001621122 0.00994166 0.043601509 0.001199911 0.001263065 -2.18843E-15 0.030920366 9.40171E-08 9.42048E-08 0.01804294 0.000390003 0.0015055 0.001459612 0.00147693 0.020919835 0.03473855 2.8203E-07 0.061840732 0.005084144 0.010084353 0.023817453 8.32667E-17 0.000315495 0.014271375 8.51634E-05	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.00121125 -0.00072675 -0.001418123 -0.001173099 -0.0052041 -0.00229966 -0.0030155045 -0.00229966 -0.003055045 -0.002490665 -0.023212696 -0.024388554 -0.002622764 -0.002610271 -0.002760804 -0.002747653 -0.01864405 -0.018445166 -0.01864405 -0.018445166 -0.01864405 -0.018445166 -0.0186495 -0.002565811 -0.00562495 -0.002565811 -0.0056295 -0.0012385963 -0.004493267 -0.000566942 -0.012805529 -0.012385963 -0.00493267 -0.000756361 -0.009905683 -0.000756361 -0.009905683 -0.000756361 -0.009905683 -0.000756361 -0.009905683 -0.000756361 -0.0093727881 -0.000756361 -0.00372881 -0.003843935 -0.0113068 -0.003883935 -0.0113068 -0.003878092 -0.0275 -0.008125 -0.016440622 -0.016436715 -0.025533278 -0.003372038 -0.0033693049 -0.002409279
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1367 Glass batch 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass, average recycled content, /AU U 1370 Acrylonitrile-butadiene-styrene copolymer, ABS, at plant/RER S 1371 Disposal, dust, alloyed EAF steel, 15.4% water, to residual material landfill/CH U 1372 Disposal, wood ash mixture, pure, 0% water, to sanitary landfill/CH U 1373 Disposal, polyurethane, 0.2% water, to municipal incineration/CH U 1374 Magnesium oxide, at plant/RER U 1375 Refractory, basic, packed, at plant/DE U 1376 Sodium hydroxide, 50% in H2O, mercury cell, at plant/RER U 1377 Trasmission fugitives from natural gas, 2001-02/AU U 1378 Hydrogen, cracking, APME, at plant/RER U 1379 Hydrogen, liquid, at plant/RER U 1379 Hydrogen, liquid, at plant/RER U 1380 Polystyrene, high impact, HIPS, at plant/RER S 1381 Hydrochloric acid, from Mannheim process, at plant/RER U 1382 Hydrochloric acid, from Mannheim process, at plant/RER U 1383 PVC, Polyvinyl chloride/AU U 1384 Vinylchloride Monomer APME/AU S 1385 Sodium hydroxide, 50% in H2O, production mix, at plant/RER U 1386 Charcoal, at plant/GLO U 1387 Petrol, unleaded, at refinery/RER U 1389 Petrol, unleaded, at regional storage/RER U 1389 Petrol, unleaded, at regional storage/RER U 1390 Petroleum coke, at refinery/RER U 1391 Disposal, concrete, 5% water, to inert material landfill/CH U 1392 Polystyrene, high impact, HIPS, at plant/RER U 1393 Hydrochloric acid, 30% in H2O, at plant/RER U 1394 Steam, from natural gas, in kg/AU U 1395 Disposal, slag, unalloyed electr. steel, 0% water, to residual material landfill/C 1396 Methanol, at plant/GLO U 1397 Polyurethane, flexible foam, at plant/RER U 1399 Disposal, hard coal ash, 0% water, to residual material landfill/PL U 1400 Formaldehyde, production mix, at plant/RER U 1401 Melamine, at plant/RER U 1402 Aluminium alloy, AlMg3, at plant/RER S 1403 Melamine formaldehyde resin, at plant/RER U	 -	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	-0.001591933 -0.001803491 -0.001803491 -0.001803491 -0.001803491 -0.001803491 -0.001938 -0.002548179 -0.002554874 -0.003524788 -0.003653193 -0.003845466 -0.003993852 -0.00399974 -0.004033123 -0.004245393 -0.004245393 -0.004546875 -0.00616885 -0.00616885 -0.006179439 -0.006191798 -0.007148552 -0.008593963 -0.00902842 -0.0090034206 -0.009009594 -0.01752346 -0.017752346 -0.011155994 -0.0123377 -0.014555626 -0.021311427 -0.030761792 -0.030875 -0.032561843 -0.03350666 -0.033870912 -0.033870912 -0.039109375 -0.046775538	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102 0.007625102 -3.25009E-19 4.30435E-05 0.001146396 0.002073422 0.001540066 0.001621122 0.00994166 0.043601509 0.001199911 0.001263065 -2.18843E-15 0.030920366 9.40171E-08 9.42048E-08 0.01804294 0.00390003 0.0015055 0.001459612 0.001047693 0.020919835 0.03473855 2.8203E-07 0.061840732 0.005084144 0.010084353 0.023817453 8.32667E-17 0.000315495 0.012834644 0.0112834644 0.01283644 0.012836644 0.012836644 0.012836644 0.012836645-15 0.000110602	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.00121125 -0.00072675 -0.001418123 -0.001173099 -0.0052041 -0.00039411 -0.002902293 -0.002290966 -0.003055045 -0.002411543 -0.007055847 -0.006824665 -0.023212696 -0.024388554 -0.002622764 -0.002610271 -0.00560375 -0.009909375 -0.01864405 -0.018445166 -0.01864405 -0.018445166 -0.0186405 -0.00366942 -0.012805529 -0.012385963 -0.004493267 -0.000756361 -0.009905683 -0.000756361 -0.009905683 -0.000756361 -0.009905683 -0.000756361 -0.009905683 -0.000756361 -0.009905683 -0.000756361 -0.009905683 -0.000756361 -0.009905683 -0.000756361 -0.009905683 -0.000756361 -0.009905683 -0.000756361 -0.009905683 -0.000756361 -0.011156267 -9.43041E-09 -0.0372881 -0.003889032 -0.0113068 -0.003878092 -0.017609561 -0.003878092 -0.017609561 -0.003878092 -0.025533278 -0.00388026 -0.044770249 -0.003372038 -0.0294875 -0.009621875 -0.009621875 -0.0043757206 -0.003128933
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1367 Glass batch 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass, average recycled content, /AU U 1370 Acrylonitrile-butadiene-styrene copolymer, ABS, at plant/RER S 1371 Disposal, dust, alloyed EAF steel, 15.4% water, to residual material landfill/CH 1372 Disposal, wood ash mixture, pure, 0% water, to sanitary landfill/CH U 1373 Disposal, polyurethane, 0.2% water, to municipal incineration/CH U 1374 Magnesium oxide, at plant/RER U 1375 Refractory, basic, packed, at plant/DE U 1376 Sodium hydroxide, 50% in H2O, mercury cell, at plant/RER U 1377 Trasmission fugitives from natural gas, 2001-02/AU U 1378 Hydrogen, cracking, APME, at plant/RER U 1379 Hydrogen, liquid, at plant/RER U 1379 Hydrogen, liquid, at plant/RER U 1380 Polystyrene, high impact, HIPS, at plant/RER S 1381 Hydrochloric acid, from the reaction of hydrogen with chlorine, at plant/RER U 1382 Hydrochloric acid, from Mannheim process, at plant/RER U 1383 PVC, Polyvinyl chloride/AU U 1384 Vinylchloride Monomer APME/AU S 1385 Sodium hydroxide, 50% in H2O, production mix, at plant/RER U 1386 Charcoal, at plant/GLO U 1387 Petrol, unleaded, at regional storage/RER U 1389 Petrol, unleaded, at regional storage/RER U 1389 Petrol, two-stroke blend, at regional storage/RER U 1390 Petroleum coke, at refinery/RER U 1391 Disposal, concrete, 5% water, to inert material landfill/CH U 1392 Polystyrene, high impact, HIPS, at plant/RER U 1393 Hydrochloric acid, 30% in H2O, at plant/RER U 1394 Steam, from natural gas, in kg/AU U 1395 Disposal, slag, unalloyed electr. steel, 0% water, to residual material landfill/C 1396 Methanol, at plant/GLO U 1397 Polyurethane, flexible foam, at plant/RER S 1398 Wood chopping, mobile chopper, in forest/RER U 1399 Disposal, hard coal ash, 0% water, to residual material landfill/PL U 1400 Formaldehyde, production mix, at plant/RER S 1403 Melamine formaldehyde resin, at plant/RER S	 -	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	-0.001591933 -0.001803491 -0.001803491 -0.001803491 -0.001803491 -0.001803491 -0.001938 -0.002548179 -0.002554874 -0.003524788 -0.003653193 -0.0038454666 -0.00399974 -0.004033123 -0.004245593 -0.004245593 -0.00616885 -0.00616885 -0.006179439 -0.00616885 -0.00619793 -0.00619798 -0.007148552 -0.008593963 -0.009002842 -0.0090034206 -0.0090034206 -0.010752346 -0.010752346 -0.0175538	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102 0.007625102 -3.25009E-19 4.30435E-05 0.001146396 0.001540066 0.001621122 0.00994166 0.043601509 0.001199911 0.001263065 -2.18843E-15 0.030920366 0.030920366 0.030920366 9.40171E-08 9.42048E-08 0.01804294 0.000390003 0.0015055 0.001459612 0.00147693 0.020919835 0.03473855 2.8203E-07 0.061840732 0.005084144 0.010084353 0.023817453 8.32667E-17 0.000315495 0.012834644 0.014271375 8.51634E-05 -5.06539E-15 0.000110602 8.96994E-07	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.00121125 -0.00072675 -0.001418123 -0.001173099 -0.0052041 -0.002829966 -0.0032041 -0.002902936 -0.003505045 -0.002411543 -0.007055847 -0.006824665 -0.023212696 -0.024388554 -0.002622764 -0.002610271 -0.002760804 -0.002747653 -0.0036375 -0.009099375 -0.01864405 -0.018445166 -0.01864405 -0.018445166 -0.01864405 -0.00566942 -0.012805529 -0.002385963 -0.004493267 -0.000756361 -0.009737458 -0.000756361 -0.009737458 -0.000756361 -0.009737458 -0.000756361 -0.009737458 -0.000756361 -0.009737458 -0.000756361 -0.009737458 -0.000756361 -0.009905683 -0.0015466262 -0.041679659 -0.003878092 -0.0113068 -0.003878092 -0.017609561 -0.003878092 -0.016440622 -0.016436715 -0.025533278 -0.002808026 -0.04477204 -0.003372038 -0.033693049 -0.002409279 -0.0294875 -0.003128933 -0.025000054 -0.005500003
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1367 Glass batch 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass 30% cullet/AU U 1370 Acrylonitrile-butadiene-styrene copolymer, ABS, at plant/RER S 1371 Disposal, dust, alloyed EAF steel, 15.4% water, to residual material landfill/CH 1372 Disposal, wood ash mixture, pure, 0% water, to sanitary landfill/CH U 1373 Disposal, polyurethane, 0.2% water, to municipal incineration/CH U 1374 Magnesium oxide, at plant/RER U 1375 Refractory, basic, packed, at plant/DE U 1376 Sodium hydroxide, 50% in H2O, mercury cell, at plant/RER U 1377 Trasmission fugitives from natural gas, 2001-02/AU U 1378 Hydrogen, cracking, APME, at plant/RER U 1379 Hydrogen, liquid, at plant/RER U 1380 Polystyrene, high impact, HIPS, at plant/RER S 1381 Hydrochloric acid, from the reaction of hydrogen with chlorine, at plant/RER U 1382 Hydrochloric acid, from Mannheim process, at plant/RER U 1383 PVC, Polyvinyl chloride/AU U 1384 Vinylchloride Monomer APME/AU S 1385 Sodium hydroxide, 50% in H2O, production mix, at plant/RER U 1386 Charcoal, at plant/GLO U 1387 Petrol, unleaded, at refinery/RER U 1388 Petrol, unleaded, at regional storage/RER U 1389 Petrol, unleaded, at refinery/RER U 1390 Petroleum coke, at refinery/RER U 1391 Disposal, concrete, 5% water, to inert material landfill/CH U 1392 Polystyrene, high impact, HIPS, at plant/RER U 1393 Hydrochloric acid, 30% in H2O, at plant/RER U 1394 Steam, from natural gas, in kg/AU U 1395 Disposal, slag, unalloyed electr. steel, 0% water, to residual material landfill/C 1396 Methanol, at plant/GLO U 1397 Polyurethane, flexible foam, at plant/RER S 1398 Wood chopping, mobile chopper, in forest/RER U 1404 Melamine, at plant/RER U 1405 MG-silicon, electronic grade, at plant/RER S 1403 Melamine formaldehyde resin, at plant/RER U 1404 Aluminium alloy, AlMg3, at plant/RER S 1403 Melamine formaldehyde resin, at plant/RER U 1404 Goper/AU U	 	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	-0.001591933 -0.001803491 -0.001803491 -0.001803491 -0.001803491 -0.001938 -0.002548179 -0.002554874 -0.003524788 -0.003653193 -0.003845466 -0.00399974 -0.004033123 -0.004245393 -0.004245393 -0.00616885 -0.00616885 -0.00616885 -0.00616885 -0.006191798 -0.00616885 -0.0061979439 -0.0061979439 -0.0061979439 -0.001748552 -0.008593963 -0.009002842 -0.00904206 -0.009609594 -0.01752346 -0.01752346 -0.01752346 -0.01752346 -0.01752346 -0.01752346 -0.017752346 -0.01785044 -0.01752346 -0.01785044	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102 0.007625102 -0.007625102 -0.007625102 -0.007625102 -0.007625102 -0.007625102 -0.0098166 0.001621122 0.00994166 0.043601509 0.001199911 0.001263065 -2.18843E-15 0.30920366 0.30920366 0.30920366 0.30920366 0.40171E-08 9.42048E-08 0.01804294 0.000390003 0.0015055 0.001459612 0.001047693 0.020919835 0.03473855 2.8203E-07 0.061840732 0.005084144 0.010084353 0.023817453 8.32667E-17 0.000315495 0.012834644 0.014271375 8.51634E-05 -5.06539E-15 0.000110602 8.96994E-07 0.000471989 0.021944133	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.00121125 -0.00172675 -0.001418123 -0.00173099 -0.0052041 -0.00229966 -0.0030155045 -0.002499665 -0.003212696 -0.002491543 -0.007055847 -0.006824665 -0.023212696 -0.0224388554 -0.002622764 -0.002610271 -0.00262066 -0.01864405 -0.018445166 -0.01864405 -0.018445166 -0.01864405 -0.018445166 -0.01869529 -0.012385963 -0.004493267 -0.000566942 -0.012805529 -0.012385963 -0.004493267 -0.000566942 -0.012805529 -0.012385963 -0.004493267 -0.000566941 -0.009905683 -0.000756361 -0.009905683 -0.000756361 -0.009905683 -0.000756361 -0.009905683 -0.000756361 -0.009905683 -0.000756361 -0.0162052 -0.015466262 -0.041679659 -0.003843935 -0.0113068 -0.003878092 -0.017609561 -0.03878092 -0.02755 -0.008125 -0.016440622 -0.016436715 -0.025533278 -0.003878092 -0.02775 -0.008125 -0.016440622 -0.016436715 -0.025533278 -0.003372038 -0.033693049 -0.002409279 -0.029475 -0.003128933 -0.026310607 -0.026304518 -0.048993943 -0.036084266
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1367 Glass batch 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass 30% cullet/AU U 1370 Acrylonitrile-butadiene-styrene copolymer, ABS, at plant/RER S 1371 Disposal, dust, alloyed EAF steel, 15.4% water, to residual material landfill/CH 1372 Disposal, wood ash mixture, pure, 0% water, to sanitary landfill/CH U 1373 Disposal, polyurethane, 0.2% water, to municipal incineration/CH U 1374 Magnesium oxide, at plant/RER U 1375 Refractory, basic, packed, at plant/DE U 1376 Sodium hydroxide, 50% in H2O, mercury cell, at plant/RER U 1377 Trasmission fugitives from natural gas, 2001-02/AU U 1378 Hydrogen, cracking, APME, at plant/RER U 1379 Hydrogen, liquid, at plant/RER U 1380 Polystyrene, high impact, HIPS, at plant/RER S 1381 Hydrochloric acid, from the reaction of hydrogen with chlorine, at plant/RER U 1382 Hydrochloric acid, from Mannheim process, at plant/RER U 1383 PVC, Polyvinyl chloride/AU U 1384 Vinylchloride Monomer APME/AU S 1385 Sodium hydroxide, 50% in H2O, production mix, at plant/RER U 1386 Charcoal, at plant/GLO U 1387 Petrol, unleaded, at regional storage/RER U 1389 Petrol, unleaded, at regional storage/RER U 1390 Petrol, two-stroke blend, at regional storage/RER U 1391 Disposal, concrete, 5% water, to inert material landfill/CH U 1392 Polystyrene, high impact, HIPS, at plant/RER U 1393 Hydrochloric acid, 30% in H2O, at plant/RER U 1394 Steam, from natural gas, in kg/AU U 1395 Disposal, slag, unalloyed electr. steel, 0% water, to residual material landfill/C 1396 Methanol, at plant/GLO U 1397 Polyurethane, flexible foam, at plant/RER S 1388 Wood chopping, mobile chopper, in forest/RER U 1399 Disposal, hard coal ash, 0% water, to residual material landfill/C 1396 Methanol, at plant/RER U 1400 Formaldehyde, production mix, at plant/RER U 1401 Melamine, at plant/RER U 1402 Aluminium alloy, AlMg3, at plant/RER S 1403 Melamine formaldehyde resin, at plant/RER U 1404 Gcopper/AU U 1406 Copper/AU U 1406 Copper/AU U	 -	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	-0.001591933 -0.001803491 -0.001803491 -0.001803491 -0.001803491 -0.001803491 -0.001938 -0.002548179 -0.002554874 -0.003524788 -0.003653193 -0.003653193 -0.003845466 -0.00399974 -0.004033123 -0.004245393 -0.004245393 -0.004245393 -0.00616885 -0.00616885 -0.006179439 -0.00616885 -0.006179439 -0.007148552 -0.008593963 -0.009002842 -0.009002842 -0.0090034206 -0.009609594 -0.017752346 -0.03377	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102 0.007625102 -0.007625102 -0.007625102 -0.007625102 -0.007625102 -0.007625102 -0.0098166 0.001621122 0.00994166 0.043601509 0.001199911 0.001263065 -2.18843E-15 0.030920366 0.030920366 0.030920366 0.030920366 0.030920366 0.030920366 0.030920366 0.030920366 0.01407693 0.0015055 0.001459612 0.001047693 0.020919835 0.03473855 2.8203E-07 0.061840732 0.005084144 0.010084353 0.023817453 8.32667E-17 0.000315495 0.012834644 0.014271375 8.51634E-05 -5.06539E-15 0.000110602 8.96994E-07 0.000471989	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.00121125 -0.00072675 -0.001418123 -0.001173099 -0.0032041 -0.00282996 -0.0032041 -0.00292936 -0.003255045 -0.002411543 -0.007055847 -0.006824665 -0.023212696 -0.024388554 -0.002622764 -0.002610271 -0.002760804 -0.002747653 -0.0036375 -0.00909375 -0.01864405 -0.018445166 -0.01864405 -0.018445166 -0.005613722 -0.00566942 -0.012805529 -0.012385963 -0.004493267 -0.004490698 -0.009747928 -0.000756361 -0.009737458 -0.000756361 -0.009737458 -0.000756361 -0.009737458 -0.000756361 -0.009737458 -0.000756361 -0.009737458 -0.000756361 -0.009737458 -0.000756361 -0.011156267 -9.43041E-09 -0.0372881 -0.03889032 -0.0113068 -0.03878092 -0.016440622 -0.016436715 -0.025533278 -0.002490279 -0.0294875 -0.003128933 -0.025000054 -0.02500003 -0.026310607 -0.026304518
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1367 Glass batch 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass 30% cullet/AU U 1370 Acrylonitrie-butadiene-styrene copolymer, ABS, at plant/RER S 1371 Disposal, dust, alloyed EAF steel, 15.4% water, to residual material landfill/CH 1372 Disposal, wood ash mixture, pure, 0% water, to sanitary landfill/CH U 1373 Disposal, polyurethane, 0.2% water, to municipal incineration/CH U 1374 Magnesium oxide, at plant/RER U 1375 Refractory, basic, packed, at plant/DE U 1376 Sodium hydroxide, 50% in H2O, mercury cell, at plant/RER U 1377 Trasmission fugitives from natural gas, 2001-02/AU U 1378 Hydrogen, cracking, APME, at plant/RER U 1379 Hydrogen, liquid, at plant/RER U 1380 Polystyrene, high impact, HIPS, at plant/RER S 1381 Hydrochloric acid, from the reaction of hydrogen with chlorine, at plant/RER U 1382 Hydrochloric acid, from Mannheim process, at plant/RER U 1383 PVC, Polyvinyl chloride/AU U 1384 Vinylchloride Monomer APME/AU S 1385 Sodium hydroxide, 50% in H2O, production mix, at plant/RER U 1386 Charcoal, at plant/GLO U 1387 Petrol, unleaded, at refinery/RER U 1389 Petrol, unleaded, at refinery/RER U 1399 Petrol, unleaded, at regional storage/RER U 1390 Petroleum coke, at refinery/RER U 1391 Disposal, concrete, 5% water, to inert material landfill/CH U 1392 Polystyrene, high impact, HIPS, at plant/RER U 1393 Hydrochloric acid, 30% in H2O, at plant/RER U 1394 Steam, from natural gas, in kg/AU U 1395 Pisposal, slag, unalloyed electr. steel, 0% water, to residual material landfill/CH 1396 Polyurethane, flexible foam, at plant/RER S 1398 Wood chopping, mobile chopper, in forest/RER U 1399 Disposal, hard coal ash, 0% water, to residual material landfill/CH 1400 Helamine, at plant/FER U 1401 Melamine, at plant/RER U 1402 Aluminium alloy, AlMg3, at plant/RER S 1403 Melamine formaldehyde resin, at plant/RER U 1404 Silicon, etectronic grade, at plant/RER U 1405 MG-silicon, at plant/RER U 1406 Copper/AU U 1407 Copper (Leach SX	 	\$	-0.001591933 -0.001803491 -0.001803491 -0.001803491 -0.001803491 -0.001803491 -0.001938 -0.002548179 -0.002554874 -0.003524788 -0.003653193 -0.003845466 -0.003938452 -0.00399974 -0.004033123 -0.004546875 -0.00616885 -0.00616885 -0.006179439 -0.006191798 -0.006191798 -0.007148552 -0.008593963 -0.009002842 -0.0090034206 -0.009609594 -0.01752346 -0.011155994 -0.0123377 -0.014555626 -0.021311427 -0.030761792 -0.030875 -0.032561843 -0.03350666 -0.033870912 -0.03350761792 -0.030875 -0.032561843 -0.03350661 -0.0335075 -0.032561843 -0.03350661 -0.0339109375 -0.036017164 -0.039109375 -0.046775538 -0.049999187 -0.052143136 -0.063134077 -0.066578615 -0.080005187	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102 0.007625102 0.007625102 -3.25009E-19 4.30435E-05 0.001146396 0.0001540066 0.001621122 0.00994166 0.043601509 0.001199911 0.001263065 -2.18843E-15 0.030920366 9.40171E-08 9.42048E-08 0.01804294 0.000390003 0.0015055 0.001459612 0.001047693 0.020919835 0.03473855 2.8203E-07 0.061840732 0.005084144 0.010084353 0.023817453 8.32667E-17 0.000315495 0.012834644 0.014271375 8.51634E-05 -5.06539E-15 0.000471989 0.021944133 0.000978033 0.001978033 0.001978033 0.021944133 0.000978033 0.001978033 0.001978033 0.001978033 0.001978033 0.001978033	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.0004906944 -0.00121125 -0.00072675 -0.001418123 -0.001173099 -0.0052041 -0.002229966 -0.003055045 -0.002290966 -0.003055045 -0.002411543 -0.007055847 -0.006824665 -0.023212696 -0.024388554 -0.002622764 -0.002610271 -0.002760804 -0.002747653 -0.01864405 -0.018445166 -0.01864405 -0.018445166 -0.01864405 -0.018445166 -0.01864405 -0.00256811 -0.005613722 -0.000566942 -0.012805529 -0.012385963 -0.004493267 -0.000766361 -0.009905683 -0.0007566414 -0.009905683 -0.000756641 -0.009905683 -0.000756641 -0.009905683 -0.000756641 -0.009905683 -0.000756641 -0.01620592 -0.015466262 -0.041679659 -0.003843935 -0.0113068 -0.003843935 -0.0113068 -0.0038849335 -0.0113068 -0.0038849335 -0.0113068 -0.003889932 -0.025000054 -0.003878092 -0.025533278 -0.00388026 -0.044770249 -0.003372038 -0.025000054 -0.026304518 -0.026310607 -0.026304518 -0.048993943 -0.036084266 -0.048993943 -0.036084266 -0.048993943 -0.036084266 -0.048993943 -0.036084266 -0.048993943 -0.036084266 -0.048993943 -0.036084266 -0.048993943 -0.036084266 -0.048993943 -0.036084266 -0.048993943 -0.008107176
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1367 Glass batch 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass 30% cullet/AU U 1370 Acrylonitrile-butadiene-styrene copolymer, ABS, at plant/RER S 1371 Disposal, dust, alloyed EAF steel, 15.4% water, to residual material landfill/CH 1372 Disposal, wood ash mixture, pure, 0% water, to sanitary landfill/CH U 1373 Disposal, polyurethane, 0.2% water, to municipal incineration/CH U 1374 Magnesium oxide, at plant/RER U 1375 Refractory, basic, packed, at plant/DE U 1376 Sodium hydroxide, 50% in H2O, mercury cell, at plant/RER U 1377 Trasmission fugitives from natural gas, 2001-02/AU U 1378 Hydrogen, cracking, APME, at plant/RER U 1379 Hydrogen, liquid, at plant/RER U 1380 Polystyrene, high impact, HIPS, at plant/RER S 1381 Hydrochloric acid, from the reaction of hydrogen with chlorine, at plant/RER U 1382 Hydrochloric acid, from Mannheim process, at plant/RER U 1383 PVC, Polyvinyl chloride/AU U 1384 Vinylchloride Monomer APME/AU S 1385 Sodium hydroxide, 50% in H2O, production mix, at plant/RER U 1386 Charcoal, at plant/GLO U 1387 Petrol, unleaded, at refinery/RER U 1389 Petrol, unleaded, at regional storage/RER U 1399 Petroleum coke, at refinery/RER U 1390 Petroleum coke, at refinery/RER U 1391 Disposal, concrete, 5% water, to inert material landfill/CH U 1392 Polystyrene, high impact, HIPS, at plant/RER U 1393 Hydrochloric acid, 30% in H2O, at plant/RER U 1394 Steam, from natural gas, in kg/AU U 1395 Disposal, slag, unalloyed electr. steel, 0% water, to residual material landfill/C 1396 Methanol, at plant/GLO U 1397 Polyurethane, flexible foam, at plant/RER S 1398 Wood chopping, mobile chopper, in forest/RER U 1399 Disposal, hard coal ash, 0% water, to residual material landfill/C 1400 Formaldehyde, production mix, at plant/RER U 1401 Melamine, at plant/RER U 1402 Aluminium alloy, AlMg3, at plant/RER S 1403 Melamine, at plant/RER U 1404 Silicon, electronic grade, at plant/PER U 1405 MG-silicon, at plant/NO U 1406 Copper	 	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-0.001591933 -0.001803491 -0.001803491 -0.001803491 -0.001803491 -0.001803491 -0.001938 -0.002548179 -0.002554874 -0.003524788 -0.003653193 -0.003845466 -0.003938852 -0.00399974 -0.004033123 -0.004245393 -0.004245393 -0.004245393 -0.00616885 -0.006179439 -0.0061885 -0.006191798 -0.007148552 -0.008593963 -0.00902842 -0.009002842 -0.009034206 -0.009609594 -0.011755994 -0.011755994 -0.01135797 -0.014555626 -0.021311427 -0.030761792 -0.030875 -0.03350666 -0.03350666 -0.033870912 -0.03350666 -0.03350666 -0.033870912 -0.036017164 -0.039109375 -0.046775538 -0.049999187 -0.052143136 -0.063134077 -0.066578615	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102 0.007625102 -3.25009E-19 4.30435E-05 0.001146396 0.001540066 0.001621122 0.00994166 0.043601509 0.001199911 0.001263065 -2.18843E-15 0.030920366 9.40171E-08 9.42048E-08 0.01804294 0.000390003 0.0015055 0.001459612 0.001047693 0.020919835 0.03473855 2.8203E-07 0.061840732 0.005084144 0.01084353 0.023817453 8.32667E-17 0.000315495 0.012834644 0.014271375 8.51634E-05 -5.06539E-15 0.000110602 8.96994E-07 0.000471989 0.021944133 0.021944133 0.021944133 0.021944133	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.00121125 -0.00072675 -0.001418123 -0.001173099 -0.0052041 -0.002290966 -0.0030155045 -0.002490665 -0.023212696 -0.002411543 -0.007055847 -0.002490666 -0.0036375 -0.002491666 -0.01864405 -0.0024415466 -0.01864405 -0.018445166 -0.01864405 -0.018445166 -0.01864405 -0.00265811 -0.00562495 -0.000365811 -0.00562995 -0.0012385963 -0.004493267 -0.000766944 -0.009905683 -0.000766941 -0.009905683 -0.00076361 -0.009905683 -0.000760414 -0.009737458 -0.000760414 -0.009737458 -0.000760414 -0.009737458 -0.000760414 -0.009737458 -0.000760414 -0.009737458 -0.000760414 -0.009737458 -0.000760414 -0.009737458 -0.000786942 -0.0113068 -0.003843935 -0.0113068 -0.003884935 -0.0113068 -0.003878092 -0.025000054 -0.003872038 -0.025000054 -0.0036890332 -0.025000054 -0.003689333 -0.025000054 -0.003689333 -0.025000054 -0.003689333 -0.025000054 -0.0036084266 -0.048993943 -0.036084266 -0.048993943 -0.036084266 -0.048993943 -0.036084266
1366 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass 30% cullet/AU U 1370 Acrylonitrile-butadiene-styrene copolymer, ABS, at plant/RER S 1371 Disposal, dust, alloyed EAF steel, 15.4% water, to residual material landfill/CH 1372 Disposal, wood ash mixture, pure, 0% water, to sanitary landfill/CH U 1373 Disposal, polyurethane, 0.2% water, to municipal incineration/CH U 1374 Magnesium oxide, at plant/RER U 1375 Refractory, basic, packed, at plant/DE U 1376 Sodium hydroxide, 50% in H2O, mercury cell, at plant/RER U 1377 Trasmission fugitives from natural gas, 2001-02/AU U 1378 Hydrogen, iquid, at plant/RER U 1379 Hydrogen, liquid, at plant/RER U 1380 Polystyrene, high impact, HIPS, at plant/RER S 1381 Hydrochloric acid, from the reaction of hydrogen with chlorine, at plant/RER U 1382 Hydrochloric acid, from Mannheim process, at plant/RER U 1383 PVC, Polyvinyl chloride/AU U 1384 Vinylchloride Monomer APME/AU S 1385 Sodium hydroxide, 50% in H2O, production mix, at plant/RER U 1386 Petrol, unleaded, at regional storage/RER U 1389 Petrol, unleaded, at regional storage/RER U 1389 Petrol, two-stroke blend, at regional storage/RER U 1390 Petroleum coke, at refinery/RER U 1391 Disposal, concrete, 5% water, to inert material landfill/CH U 1392 Polystyrene, high impact, HIPS, at plant/RER U 1393 Hydrochloric acid, 30% in H2O, at plant/RER U 1394 Steam, from natural gas, in kg/AU U 1395 Disposal, slag, unalloyed electr. steel, 0% water, to residual material landfill/C 1396 Methanol, at plant/GLO U 1397 Polyurethane, flexible foam, at plant/RER S 1398 Wood chopping, mobile chopper, in forest/RER U 1400 Helamine, at plant/RER U 1401 Melamine, at plant/RER S 1403 Melamine, formaldehyde resin, at plant/RER U 1404 Silicon, electronic grade, at plant/RER U 1405 MG-silicon, at plant/RER U 1406 Gopper/AU U 1407 Copper (Leach SX/EW)/AU U 1408 Urea, as N, at regional storehouse/RER U 1410 Urea, as N, at regional storehouse/RER U 1411 PB, Polybutadiene/AU U 1411	 	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-0.001591933 -0.001803491 -0.001803491 -0.001803491 -0.001803491 -0.001938 -0.002548179 -0.002554874 -0.003524788 -0.003653193 -0.003653193 -0.003845466 -0.00399974 -0.004033123 -0.004245393 -0.004245393 -0.004245393 -0.00616885 -0.00616885 -0.00616885 -0.006179439 -0.00616885 -0.006179439 -0.00619798 -0.007148552 -0.008593963 -0.009002842 -0.009002842 -0.0090034206 -0.017752346 -0.017752346 -0.017752346 -0.01785044 -0.01155994 -0.0123377 -0.014555626 -0.0213111427 -0.030761792 -0.030875 -0.032561843 -0.03350666 -0.033870912 -0.036017164 -0.033109375 -0.046778538 -0.049999187 -0.052143136 -0.063134077 -0.066578615 -0.080005187 -0.086095893 -0.096976533 -0.096976533	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102 0.007625102 -0.007625102 -0.007625102 -0.007625102 -0.007625102 -0.007625102 -0.0098166 0.001621122 0.00994166 0.043601509 0.001199911 0.001263065 -2.18843E-15 0.030920366 0.030920366 0.030920366 0.030920366 0.030920366 0.030920366 0.030920366 0.030920366 0.0015055 0.001459612 0.001047693 0.020919835 0.03473855 2.8203E-07 0.061840732 0.005084144 0.010084353 0.023817453 8.32667E-17 0.000315495 0.012834644 0.014271375 8.51634E-05 -5.06539E-15 0.000110602 8.96994E-07 0.000471989 0.021944133 0.021944133 0.002194413 0.002194488 0.01551	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.0004906944 -0.00121125 -0.00173099 -0.003418273 -0.0022996 -0.00305045 -0.0022996 -0.003055045 -0.002411543 -0.007055847 -0.006824665 -0.023212696 -0.0224388554 -0.002622764 -0.002610271 -0.00262896 -0.002411543 -0.007055847 -0.006824665 -0.03361375 -0.0086942 -0.01864405 -0.018445166 -0.01864405 -0.018445166 -0.01864405 -0.018445166 -0.0186529 -0.002565811 -0.00562495 -0.000566942 -0.012805529 -0.012385963 -0.004493267 -0.000566942 -0.012805529 -0.012385963 -0.004493267 -0.000566942 -0.01620529 -0.015466262 -0.041679659 -0.003843935 -0.01113068 -0.003756361 -0.00372881 -0.003756361 -0.0372881 -0.003756361 -0.0372881 -0.003843935 -0.01113668 -0.003878092 -0.017609561 -0.03878092 -0.017609561 -0.03878092 -0.02755 -0.008125 -0.016440622 -0.016436715 -0.025533278 -0.003878092 -0.024777206 -0.003128933 -0.025000054 -0.0026304518 -0.048993943 -0.026304518 -0.048993943 -0.036084266 -0.048993943 -0.036084266 -0.048993943 -0.036084266 -0.048993943 -0.036084266 -0.048993943 -0.036084266 -0.048939343 -0.036084266 -0.048939343 -0.036084266 -0.04893332 -0.006073277 -0.066129333 -0.00432552 -0.066129333 -0.00432552 -0.066129333 -0.054069
1365 Glass fibre/AU U 1366 Glass melt 30% cullet/AU U 1368 Container glass, average recycled content, /AU U 1369 Container glass 30% cullet/AU U 1370 Acrylonitrile-butadiene-styrene copolymer, ABS, at plant/RER S 1371 Disposal, dust, alloyed EAF steel, 15.4% water, to residual material landfill/CH 1372 Disposal, wood ash mixture, pure, 0% water, to sanitary landfill/CH U 1373 Disposal, polyurethane, 0.2% water, to municipal incineration/CH U 1374 Magnesium oxide, at plant/RER U 1375 Refractory, basic, packed, at plant/DE U 1376 Sodium hydroxide, 50% in H2O, mercury cell, at plant/RER U 1377 Trasmission fugitives from natural gas, 2001-02/AU U 1378 Hydrogen, cracking, APME, at plant/RER U 1379 Hydrogen, liquid, at plant/RER U 1380 Polystyrene, high impact, HIPS, at plant/RER S 1381 Hydrochloric acid, from the reaction of hydrogen with chlorine, at plant/RER U 1382 Hydrochloric acid, from Mannheim process, at plant/RER U 1383 PVC, Polyvinyl chloride/AU U 1384 Vinylchloride Monomer APME/AU S 1385 Sodium hydroxide, 50% in H2O, production mix, at plant/RER U 1386 Charcoal, at plant/GLO U 1387 Petrol, unleaded, at regional storage/RER U 1389 Petrol, unleaded, at regional storage/RER U 1390 Petroleum coke, at refinery/RER U 1391 Disposal, concrete, 5% water, to inert material landfill/CH U 1392 Polystyrene, high impact, HIPS, at plant/RER U 1393 Hydrochloric acid, 30% in H2O, at plant/RER U 1394 Steam, from natural gas, in kg/AU U 1395 Disposal, slag, unalloyed electr. steel, 0% water, to residual material landfill/CH 1396 Methanol, at plant/CLO U 1397 Polyurethane, flexible foam, at plant/RER U 1398 Wood chopping, mobile chopper, in forest/RER U 1399 Disposal, hard coal ash, 0% water, to residual material landfill/CH 1396 Methanol, at plant/RER U 1397 Polyurethane, flexible foam, at plant/RER U 1398 Wood chopping, mobile chopper, in forest/RER U 1399 Disposal, hard coal ash, 0% water, to residual material landfill/CH 1399 Polyerthane, flexible foam, at plant/RER U 1400 Metamine, at plant/RER U 1401 Metamine, at plant	 	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-0.001591933 -0.001803491 -0.001803491 -0.001803491 -0.001803491 -0.001803491 -0.001938 -0.002548179 -0.002554874 -0.003524788 -0.003653193 -0.003653193 -0.003454566 -0.00399974 -0.004033123 -0.004245393 -0.004245393 -0.004245393 -0.00616885 -0.00616885 -0.00616885 -0.006179439 -0.00619798 -0.00619798 -0.007148552 -0.008593963 -0.009002842 -0.009002842 -0.009034206 -0.01755346 -0.01755346 -0.01755346 -0.01755346 -0.01755346 -0.01755346 -0.01755346 -0.01755346 -0.01755346 -0.01755346 -0.01755346 -0.01755346 -0.01755346 -0.01755346 -0.01755346 -0.03350666 -0.03350666 -0.03350666 -0.033870912 -0.036077164 -0.033109375 -0.046775538 -0.046775538 -0.049999187 -0.052143136 -0.063134077 -0.066578615 -0.080005187 -0.085095893 -0.096976533	0.000670755 0.007623395 0.007625102 0.007625102 0.007625102 0.007625102 -0.007625102 -0.007625102 -0.007625102 -0.007625102 -0.007625102 -0.0098166 0.001621122 0.00994166 0.043601509 0.001199911 0.001263065 -2.18843E-15 0.030920366 0.030920366 0.030920366 0.030920366 0.030920366 0.030920366 0.001459612 0.00147693 0.020919835 0.03473855 2.8203E-07 0.061840732 0.005084144 0.010084353 0.023817453 8.32667E-17 0.000315495 0.012834644 0.014271375 8.51634E-05 -5.06539E-15 0.000110602 8.96994E-07 0.00471989 0.021944133 0.021944133 0.021944133 0.021944133 0.0017408	-0.0011375 -0.00040625 -0.002104202 -0.000158486 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.004521648 -0.004906944 -0.00121125 -0.00072675 -0.001418123 -0.001173099 -0.0052041 -0.002829966 -0.0032041 -0.002902936 -0.0035045 -0.002411543 -0.007055847 -0.006824665 -0.023212696 -0.002411543 -0.00765847 -0.006824665 -0.023212696 -0.024388554 -0.002622764 -0.002610271 -0.002760804 -0.002747653 -0.0036375 -0.009909375 -0.01864405 -0.018445166 -0.01864405 -0.018445166 -0.01864405 -0.018445166 -0.005613722 -0.00566942 -0.012805529 -0.012385963 -0.004493267 -0.000756361 -0.009737458 -0.000756361 -0.009905683 -0.000756361 -0.009737458 -0.000756361 -0.009905683 -0.000756361 -0.003608426 -0.041679659 -0.003843935 -0.011156267 -9.43041E-09 -0.037281 -0.003878092 -0.017609561 -0.01378622 -0.050701153 -0.003878092 -0.01275 -0.003878092 -0.013760250 -0.044770249 -0.003372038 -0.025000054 -0.003128933 -0.025000054 -0.026304518 -0.048993943 -0.036084266 -0.063042968 -0.00432552
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147 Serv coex Votoris (2007-0290-U 162 2017-0290		-					
1448 PROJECTION		-	kg				-285.427756
1449 Department Departmen		-					
1450 Facility used/CH1 U			-				
582 Operation, mainternance, manifest II	·		-				
1853 Operation, receivable (1967) 1875 Operation, consideration (1967) 1875 Operation, consideration (1967) 1875 Operation (1967) 1875 Opera	·		my				
1645 Manhamman, operation, canal/Media 1.74 August 1			-				
1455 Care Average AU	·		-				
1466 CEA / JAMPS 1474-100 1	· · · · · · · · · · · · · · · · · · ·		-				
1456 Car Georgia 1474 1474 1475 1474 1476	1456 Car Average/AU U		m	2733750	5771250	-1974375	-1063125
1466 Chemiston, bury SQRTER IV	. ,						-960001.875
1460 Operation, Jony 20/PERE U							
1403 Operation, processinger candific II							-51.0737402
1663 Operation, lone v 300CH U	• • •		m	49.80413363	70.08445082		
1646 Operation, vair - 3,50/CH U	, ,, ,						
1465 Organizion, persengeng carcibi U	• • • •						
1467 Transmission network, electricity, mily voltageCHVI U m n 0.000123555 0.000504313 - 2.28786-05 - 3.28886-05 1460 Operation, bright voltageCHVI U m 0.00012355 0.000504313 - 2.28786-05 - 1.28860-05 1460 Operation, bright voltageCHVI U m 0.00012355 0.000504313 - 2.28786-05 - 1.28860-05 1460 Operation, bright voltage CHVI U m 0.00012355 0.000504313 - 2.28786-05 - 1.28860-05 1460 Operation and production, one-hore/LOT U m 0.00012355 0.000504313 - 2.28786-05 0.00050431 - 2.28786-05 0.00050431 - 2.28786-05 0.00050431 - 2.28786-05 0.00050431 - 2.28786-05 0.00050431 - 2.28786-05 0.00050431 - 2.28786-05 0.00050431 - 2.28786-05 0.00050431 - 2.28786-05 0.0005043							
1488 Transmasion network, electricity, high voltage/Chi I	1466 Operation, van < 3,5t/RER U		m				
1490 Coperation, furty 28th emptyCH U							
1470 Pipeline, natural gas. high pressure distribution network/RERI U m 5.7893E2-60 0.001028716 7.1298866	, ,, ,						
1472 Welf or exploration and production, centiones(CLOT U m 2.11717E-05 2.33405E-05 2.33							
1473 Veter supply network-OH I			m	5.79653E-05			
1474 Transmission network, long-distance UCTF I	1 /						
1475 Distribution network, electricity, low voltage/CHI U	11.7						
1477 Pipeline, natural gas, long distance, low panely, prosheroe(GLOI U m							
1479 Popeline, natural gas, long distance, low capacity, or shore/SLOR U m			m				
1479 Welf for exploration and production, offshore/OCE/I U							
1480 Sewer grid, class 3CH-IU							
1482 Pipeline, natural gas, long distance, high capacity, offshore/GLO/I U m	·						
44486E-07							
1484 Chimney/CH/I U							
1486 Sewer grid, class A/CHU M							
1488 Sewer grid, Class I/CHI U							
1489 Sewer grid, class 1/CH/I U 1489 Welding, are, aluminim/RER U 1489 Welding, are, aluminim/RER U 1480 Welding, are, aluminim/RER U 1480 Welding, are, aluminim/RER U 1480 Final Sewer grid, class 2/CH/I U 1490 Drilled metres orishore U 1490 Drilled metres orishore U 1491 Drilled metres orishore U 1492 Drilled metres orishore U 1492 Drilled metres orishore U 1493 Sewer grid, class 2/CH/I U 1494 Sewer grid, class 2/CH/I U 1495 Transport electricity from gistance UCPTE U 1496 Transport ext Weturope ETH U 1497 Passenger cat W-Europe ETH U 1498 Infra road passenger cat W-Europe ETH U 1498 Infra road passenger cat W-Europe ETH U 1498 Infra road passenger cat W-Europe U 1499 Department (1497 Department of the Well of the W	~ ·						
1489 Welding, arc, aluminium/RER U							
1490 Dilled metres (offshore U							
1492 Drilled metres onshore U		-	m	-1.38962E-09	-2.92773E-19	-8.68514E-10	-5.21108E-10
1493 Sewer ginl. class 2CH/I U		-					
1494 Conveyor belt, at plan/RERI U		-					
1495 fransport electricity long distance UCPTE U							
498 Infar and passenger car W-Europe ETH U			m	-3.65525E-05	-7.70106E-15	-2.28453E-05	-1.37072E-05
1488 Infra road passenger car U	· ·						
1499 Infra passenger car W- Europe U	·						
1502 Poetsion, Iorry 16/RER U	· · · · · · · · · · · · · · · · · · ·						
1502 Roads, company, internal/CH/I U MJ	1500 Operation, lorry 16t/CH U		m	-1.411613483	9.138178596	-9.619749216	-0.930042864
1503 Oil & gas production 2001-02/AU U	• • •						
1504 Electricity, medium voltage, production UCTE, at grid/UCTE U							
1506 Electricity, production mix UCTE/UCTE U							
1507 Energy, from natural gas/AU U	1505 Electricity, production mix UCTE/UCTE U		MJ	190.6609545	209.6592216		
1508 Natural gas, burned in industrial furnace >100kW/RER U							
1509 Energy, from natural gas 2001-02 - just fuel, CO2,CH4, & N2O, energy into service MJ 64.35872245 68.48242208 -1.978060125 -2.14563955 -2.1457952 -2.145639555 -2.14563955 -		-					
1511 Electricity, high voltage, eastern Australian average Author A		e					
1512 Electricity, production mix DE/DE U		-					-0.85311755
1513 Electricity, production mix FR/FR U	, , ,						-0.85311755
1514 Heat, natural gas, at industrial furnace >100kW/RER U MJ 47.91746047 48.7624285 -0.773293722 -0.07167431 1515 Heat gas B250 MJ 46.875 937.5 -468.75 -421.87 1516 Electricity, nuclear, at power plant pressure water reactor/FR U MJ 41.31899869 45.51186465 -2.681029278 -1.5118366 1517 Lignite, burned in power plant/DE U MJ 40.87650235 44.98000828 -2.61371854 -1.48978738 1518 Hard coal, burned in power plant/DE U MJ 36.89724649 40.36690056 -2.331221615 -1.32843245 -1.59823010 -0.426914315 -0.946293615 -0.946494 -0.46870314 -0.946494 -0.46870314 -0.94649							
1515 Heat gas B250	* * *						
1517 Lignite, burned in power plant/DE U MJ 40.87650235 44.98000828 -2.613718544 -1.48978738 1518 Hard coal, burned in power plant/DE U MJ 36.89724649 40.35690056 -2.331221615 -1.32843245 1519 Electricity mix for aluminium smelting/AU U MJ 36.21703962 37.10724757 -0.426914315 -0.46329365 1520 Electricity, production mix IT/IT U MJ 25.74479372 28.31207824 -1.631033853 -0.93625066 1521 Natural gas, high pressure, at consumer/IT U MJ 25.22700814 27.7426588 -1.598230101 -0.91742055 1522 Natural gas, burned in power plant/IT U MJ 25.22700814 27.7426588 -1.598230101 -0.91742055 1523 Natural gas, high pressure, at consumer/RER U MJ 24.59705958 89.38800482 -35.03475305 -29.7561921 1524 Heavy fuel oil, burned in power plant/IT U MJ 21.46870314 23.59855843 -1.353232997 -0.77662225 1526 Electricity, production mix ES/ES U MJ 19.07258435 20.97305934 -1.207054082 -0.69342090 1526 Electricity, nuclear, at power plant/DE U MJ 15.013374 20.57530789 -2.667464742 -2.89446914 1528 Electricity, hydropower, at run-of-river power plant/RER U MJ 14.05116983 15.43784901 -0.880854155 -0.50682502 1530 Electricity, lignite, at power plant/DE U MJ 13.50049619 14.85578255 -0.863246492 -0.4920398 1531 Electricity, hard coal, at power plant/DE U MJ 13.29155825 14.23141251 -0.829753423 -0.4801008 1533 Natural gas, bigh pressure, at consumer/NL U MJ 12.92155825 14.23141251 -0.829753423 -0.4801008 1533 Natural gas, bigh pressure, at consumer/NL U MJ 11.57640274 12.71902655 -0.724862275 -0.441706156 1535 Hard coal coke, at plant/RER U MJ 11.5766897 17.78675537 -3.418559666 -2.79655673		-					-421.875
1518 Hard coal, burned in power plant/DE U MJ 36.69724649 40.35690056 -2.331221615 -1.32843245 1519 Electricity mix for aluminium smelting/AU U MJ 36.21703962 37.10724757 -0.426914315 -0.46329363 1520 Electricity, production mix IT/IT U MJ 25.74479372 28.31207824 -1.631033853 -0.93625005 1521 Natural gas, high pressure, at consumer/IT U MJ 25.22700814 27.7426588 -1.598230101 -0.91742055 1523 Natural gas, burned in power plant/IT U MJ 25.22700814 27.7426588 -1.598230101 -0.91742055 1523 Natural gas, high pressure, at consumer/RER U MJ 24.59705958 89.38800482 -35.03475305 -29.7561921 1524 Heavy fuel oil, burned in power plant/IT U MJ 21.46870314 23.59855843 -1.353232997 -0.7766225 1526 Electricity, production mix ES/ES U MJ 19.07258435 20.97305934 -1.207054082 -0.69342091 1526 Electricity, nuclear, at power plant/DE U MJ 15.89344381 17.49387653 -1.019352683 -0.588108004 1527 Articulated truck operation AU MJ 15.013374 20.57530789 -2.667464742 -2.89446914 1528 Electricity, hydropower, at run-of-river power plant/ER U MJ 14.05116983 15.43784901 -0.880854155 -0.863246492 1530 Electricity, hard coal, at power plant/DE U MJ 13.510049619 14.85578255 -0.863246492 -0.4920396 1533 Natural gas, high pressure, at consumer/NL U MJ 12.92155825 14.23141251 -0.829753423 -0.4801008 1533 Natural gas, burned in power plant/UCTE U MJ 11.57660274 12.71902655 -0.724862275 -0.49765537 1535 Hard coal coke, at plant/RER U MJ 11.57163897 17.78675537 -3.418559666 -2.79655673	1516 Electricity, nuclear, at power plant pressure water reactor/FR U			41.31899869	45.51186465		
1519 Electricity mix for aluminium smelting/AU U MJ 36.21703962 37.10724757 -0.426914315 -0.46329363 1520 Electricity, production mix IT/IT U MJ 25.74479372 28.31207824 -1.631033853 -0.93625066 1521 Natural gas, high pressure, at consumer/IT U MJ 25.22700814 27.7426588 -1.598230101 -0.91742055 1522 Natural gas, high pressure, at consumer/RER U MJ 25.22700814 27.7426588 -1.598230101 -0.91742055 1524 Heavy fuel oil, burned in power plant/IT U MJ 24.59705958 89.38800482 -35.03475305 -29.7561921 1524 Heavy fuel oil, burned in power plant/IT U MJ 21.46870314 23.59855843 -1.353232997 -0.77662225 1525 Electricity, production mix ES/ES U MJ 19.07258435 20.97305934 -1.207054082 -0.69342090 1526 Electricity, nuclear, at power plant/DE U MJ 15.013374 20.57530789 -2.667464742 -2.89446914 1529 Hard coal, burned in power plant/ES U MJ 14.63373361 27.18610516 -6.697149176 -5.85522237 1529 Hard coal, burned in power plant/DE U MJ 13.50049619 14.85578255 -0.863246492 -0.4920398 1531 Electricity, hard coal, at power plant/DE U MJ 13.21100874 14.5284842 -0.839239781 -0.47823568 1532 Natural gas, burned in power plant/NL U MJ 12.92155825 14.23141251 -0.829753423 -0.4801008 1533 Natural gas, burned in power plant/UCTE U MJ 11.57640274 12.71902655 -0.724862275 -0.41776153 1535 Hard coal coke, at plant/RER U MJ 11.57163897 17.78675537 -3.418559666 -2.79655673							
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1524 Heavy fuel oil, burned in power plant/IT U MJ 21.46870314 23.59855843 -1.353232997 -0.77662225 1525 Electricity, production mix ES/ES U MJ 19.07258435 20.97305934 -1.207054082 -0.69342090 1526 Electricity, nuclear, at power plant/DE U MJ 15.89344381 17.49387653 -1.019352683 -0.58108004 1527 Articulated truck operation AU							
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1526 Electricity, nuclear, at power plant/DE U MJ 15.89344381 17.49387653 -1.019352683 -0.58108004 -1.019352683 -0.667464742 -0.89054155 -0.50582502 -	· · · · · · · · · · · · · · · · · · ·						
1528 Electricity, hydropower, at run-of-river power plant/RER U MJ 14.63373361 27.18610516 -6.697149176 -5.85522237 1529 Hard coal, burned in power plant/ES U MJ 14.05116983 15.43784901 -0.880854155 -0.50582502 1530 Electricity, lignite, at power plant/DE U MJ 13.50049619 14.85578255 -0.863246492 -0.4920398 1531 Electricity, hard coal, at power plant/DE U MJ 13.21100874 14.5284842 -0.839239781 -0.47823568 1532 Natural gas, high pressure, at consumer/NL U MJ 12.92155825 14.23141251 -0.829753423 -0.4801008 1533 Natural gas, burned in power plant/NL U MJ 12.92155825 14.23141251 -0.829753423 -0.4801008 1534 Electricity, nuclear, at power plant/UCTE U MJ 11.57640274 12.71902655 -0.724862275 -0.41776153 1535 Hard coal coke, at plant/RER U MJ 11.57163897 17.78675537 -3.418559666 -2.79655673	1526 Electricity, nuclear, at power plant/DE U		MJ	15.89344381	17.49387653	-1.019352683	-0.581080041
1529 Hard coal, burned in power plant/ES U MJ 14.05116983 15.43784901 -0.880854155 -0.50582502 1530 Electricity, lignite, at power plant/DE U MJ 13.50049619 14.85578255 -0.863246492 -0.4920398 1531 Electricity, hard coal, at power plant/DE U MJ 13.21100874 14.5284842 -0.839239781 -0.47823568 1532 Natural gas, high pressure, at consumer/NL U MJ 12.92155825 14.23141251 -0.829753423 -0.4801008 1533 Natural gas, burned in power plant/NL U MJ 11.57640274 12.71902655 -0.724862275 -0.41776153 1535 Hard coal coke, at plant/RER U MJ 11.57163897 17.78675537 -3.418559666 -2.79655673	·						
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1532 Natural gas, high pressure, at consumer/NL U MJ 12.92155825 14.23141251 -0.829753423 -0.4801008 1533 Natural gas, burned in power plant/NL U MJ 12.92155825 14.23141251 -0.829753423 -0.4801008 1534 Electricity, nuclear, at power plant/UCTE U MJ 11.57640274 12.71902655 -0.724862275 -0.41776153 1535 Hard coal coke, at plant/RER U MJ 11.57163897 17.78675537 -3.418559666 -2.79655673							
1534 Electricity, nuclear, at power plant/UCTE U MJ 11.57640274 12.71902655 -0.724862275 -0.41776153 1535 Hard coal coke, at plant/RER U MJ 11.57163897 17.78675537 -3.418559666 -2.79655673	1532 Natural gas, high pressure, at consumer/NL U		MJ	12.92155825	14.23141251	-0.829753423	-0.48010084
1535 Hard coal coke, at plant/RER U MJ 11.57163897 17.78675537 -3.418559666 -2.79655673							-0.48010084
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537 Natural gas, high pressure, at consumer/DE U 538 Natural gas, burned in power plant/DE U 539 Electricity, nuclear, at power plant pressure water reactor/UCTE U	MJ MJ MJ	10.60163299 10.60163299 10.41876246	11.66919631 11.66919631 11.4471239	-0.679955478 -0.387607837 -0.679955478 -0.387607837 -0.652376048 -0.375985385
540 Energy, from fuel oil/AU U -	MJ	10.09441597	13.72171364	-1.740417672 -1.886879997
541 Electricity, natural gas, at power plant/IT U 542 Lignite, burned in power plant/GR U	MJ MJ	9.460128052 8.981448272	10.40349705 9.873648946	-0.599336288 -0.34403271 -0.56669096 -0.325509714
543 Energy, from fuel oil 2001-02 - just fuel, CO2,CH4, & N2O, energy into seperal	MJ	8.846272187	9.649349199	-0.385282146 -0.417794867
544 Electricity, oil, at power plant/IT U 545 Electricity, production mix NL/NL U	MJ MJ	8.222056523 8.160975609	9.037745783 8.974184304	-0.518259446 -0.297429814 -0.516494263 -0.296714433
546 Electricity, hydropower, at power plant/FR U	MJ	7.756315352	8.469727341	-0.4566527 -0.25675929
547 Electricity, production mix BE/BE U	MJ	7.717497016	8.487375863	-0.488889986 -0.280988862
548 Lignite, burned in power plant/CS U 549 Hard coal, burned in power plant/FR U	MJ MJ	7.40699479 7.233827027	8.142823066 7.960656202	-0.467369047 -0.26845923 -0.464753657 -0.262075518
550 Electricity, production mix CH/CH U	MJ	6.625058111	7.275857997	-0.413353579 -0.237446307
551 Hard coal, burned in power plant/IT U 552 Blast furnace gas, burned in power plant/RER U	MJ MJ	6.561306197 6.449575386	7.209475331 7.100550693	-0.411849467 -0.236319666 -0.413669935 -0.237305373
553 Lignite, burned in power plant/ES U	MJ	6.116278349	6.723882856	-0.385926507 -0.221678
554 Hard coal, burned in power plant/NL U 555 Transport infrast. priv. sect/AU U	MJ MJ	5.935156356 5.428951787	6.530964496 15.84199432	-0.377484891 -0.218323249 -4.994404381 -5.418638153
556 Electricity, production mix AT/AT U	MJ	5.208381606	5.739817475	-0.340468731 -0.190967138
557 Electricity, hard coal, at power plant/ES U	MJ	5.058421139	5.557625645	-0.317107496 -0.18209701
558 Electricity, production mix GR/GR U 559 Electricity, hydropower, at power plant/IT U	MJ MJ	4.919052625 4.863168908	5.409207916 5.348126696	-0.31131362 -0.178841671 -0.308100861 -0.176856927
560 Electricity, natural gas, at power plant/NL U	MJ	4.717810315	5.19605325	-0.302952568 -0.175290368
561 Electricity, natural gas, at power plant/DE U 562 Electricity, nuclear, at power plant boiling water reactor/DE U	MJ MJ	4.637409328 4.609098704	5.104387205 5.073224194	-0.297428885 -0.169548993 -0.295612278 -0.168513212
563 Electricity, hydropower, at power plant/AT U	MJ	4.131513019	4.553070881	-0.270074488 -0.151483374
564 Electricity, hydropower, at power plant/CH U	MJ	4.09846846	4.645716054	-0.381902624 -0.165344971
565 Electricity, production mix PT/PT U 566 Energy, from black coal - just fuel, CO2, CH4 N2O2001-02, used for energy in	MJ MJ	4.045749436 3.988695559	4.448885092 4.412512976	-0.25604461 -0.147091046 -0.203329545 -0.220487872
567 Natural gas, burned in power plant/UCTE U	MJ	3.663911967	4.012534708	-0.221579501 -0.12704324
568 Hard coal, burned in power plant/PT U 569 Natural gas, high pressure, at consumer/BE U	MJ MJ	3.635403537 3.625017096	3.994171175 3.98664013	-0.227898349 -0.13086929 -0.229638559 -0.131984475
570 Natural gas, burned in power plant/BE U	MJ	3.625017096	3.98664013	-0.229638559 -0.131984475
571 Electricity, hydropower, at reservoir power plant, alpine region/RER U	MJ	3.49246169	6.224433263	-1.445332142 -1.286639432
572 Hard coal, burned in power plant/BE U 573 Electricity, production mix CS/CS U	MJ MJ	3.394242012 3.336962884	3.72966665 3.669472035	-0.21303255 -0.122392088 -0.211187412 -0.121321739
574 Natural gas, burned in gas turbine, for compressor station/RU U	MJ	3.295368666	6.916779888	-1.977538323 -1.643872898
575 Heat, unspecific, in chemical plant/RER U 576 Electricity, lignite, at power plant/GR U	MJ MJ	3.264550132 3.16992292	3.266765807 3.484817275	-0.001788658 -0.000427017 -0.200008574 -0.114885781
576 Electricity, lignite, at power plant/GR U 577 Natural gas, high pressure, at consumer/ES U	MJ	3.131685394	3.484817275	-0.200008574 -0.114885781 -0.198196211 -0.113858532
578 Natural gas, burned in power plant/ES U	MJ	3.131685394	3.443740137	-0.198196211 -0.113858532
579 Tasmanian average electricity mix, high voltage/AU U 580 Electricity, high voltage, Tasmania average/AU U	MJ MJ	3.120124797 3.120124797	3.19756863 3.19756863	-0.037246211 -0.040197622 -0.037246211 -0.040197622
581 Electricity, hydropower, at reservoir power plant, non alpine regions/RER U	MJ	3.046993094	3.352765305	-0.194057213 -0.111714998
582 Refinery gas, burned in furnace/MJ/RER U 583 Electricity, hydropower, at power plant/ES U	MJ MJ	2.907225973 2.870646608	3.66913849 3.156690312	-0.538706056 -0.22320646 -0.181675746 -0.104367958
584 Heavy fuel oil, burned in power plant/ES U	MJ	2.7639718	3.039385963	-0.174924576 -0.100489587
585 Electricity, nuclear, at power plant/CH U	MJ	2.761341189	3.129876664	-0.257154152 -0.111381322
586 Light fuel oil, burned in industrial furnace 1MW, non-modulating/RER U 587 Electricity, hard coal, at power plant/FR U	MJ MJ	2.726195321 2.553115421	3.044241231 2.809643365	-0.249594634 -0.068451276 -0.164030702 -0.092497242
588 Electricity, hard coal, at power plant/IT U	MJ	2.447741172	2.689545201	-0.153643325 -0.088160705
589 Coke oven gas, burned in power plant/RER U 590 Coke oven gas, at plant/GLO U	MJ MJ	2.399534907	2.641853563	-0.154112593 -0.088206062 -0.154112593 -0.088206062
591 Oil & Gas Production Energy 00-01/AU U	MJ	2.399534907 2.351911507	2.641853563 2.470888462	-0.057089223 -0.061887732
592 Energy, from natural gas, low population area/AU U	MJ	2.334771416	2.4528813	-0.056673172 -0.061436711
593 Electricity, hydropower, at power plant/DE U 594 Electricity, hydropower, at reservoir power plant/CH U	MJ MJ	2.25855835 2.218156192	2.485990237 2.514458343	-0.144856608 -0.082575279 -0.206775483 -0.089526668
595 Electricity, lignite, at power plant/CS U	MJ	2.203733987	2.422658102	-0.139051948 -0.079872167
596 Electricity, lignite, at power plant/ES U 597 Heavy fuel oil, burned in power plant/PT U	MJ MJ	2.201860206 2.171693921	2.420597828 2.388090727	-0.138933543 -0.07980408 -0.137440672 -0.078956133
598 Heavy fuel oil, burned in power plant/GR U	MJ	2.153644832	2.368243148	-0.136298393 -0.078299923
599 Electricity, hard coal, at power plant/NL U 600 Electricity mix, aluminium industry/GLO U	MJ MJ	2.094761067 2.074576984	2.305046293 2.145371442	-0.133229961 -0.077055264 -0.046266619 -0.02452784
601 Natural gas, high pressure, at consumer/FR U	MJ	2.061196621	2.270305311	-0.133695047 -0.075413643
602 Natural gas, burned in power plant/FR U	MJ	2.061196621	2.270305311	-0.133695047 -0.075413643
603 Electricity, high voltage, aluminium industry, at grid/GLO U 604 Electricity, medium voltage, aluminium industry, at grid/GLO U	MJ MJ	2.054025835 2.033688946	2.124118245 2.103087372	-0.045807818 -0.024284592 -0.045354275 -0.024044151
605 Electricity, hydropower, at run-of-river power plant/CH U	MJ	1.988160855	2.268021347	-0.191730551 -0.088129942
606 Heavy fuel oil, burned in power plant/DE U 607 Transport infrast. pub sect/AU U	MJ MJ	1.942356533 1.908135446	2.137946702 4.499570196	-0.124575966 -0.071014203 -1.242880032 -1.348554717
608 Lignite, burned in power plant/BA U	MJ	1.852201014	2.036198534	-0.116867996 -0.067129524
609 Heavy fuel oil, burned in industrial furnace 1MW, non-modulating/RER U	MJ	1.8434523	3.289228858	-0.828088036 -0.617688522
610 Natural gas, sweet, burned in production flare/MJ/GLO U 611 Lignite, burned in power plant/MK U	MJ MJ	1.799157032 1.649252744	2.256469006 1.813078457	-0.29074369 -0.166568284 -0.104055757 -0.059769956
612 Heavy fuel oil, burned in power plant/FR U	MJ	1.604280158	1.767034606	-0.10405815 -0.058696298
613 Electricity, at wind power plant/RER U 614 Electricity, nuclear, at power plant pressure water reactor/CH U	MJ MJ	1.547482115 1.518737654	1.703676196 1.721432165	-0.099247951 -0.056946129 -0.141434783 -0.061259727
615 Electricity, at wind power plant 800kW/RER U	MJ	1.516532473	1.669602672	-0.097262992 -0.055807206
616 Electricity, natural gas, at power plant/BE U 617 Electricity, natural gas, at power plant/ES U	MJ MJ	1.488034384 1.458482202	1.636477134 1.603811707	-0.094264403 -0.054178348 -0.092303539 -0.053025966
618 Refinery Processing 00-01/AU U	MJ	1.395619578	1.457453302	-0.029665187 -0.032168537
619 Electricity, natural gas, at power plant/UCTE U	MJ M I	1.391358975	1.523747357	-0.084144114 -0.048244268 -0.085461881 -0.049075984
620 Electricity, hard coal, at power plant/PT U 621 Electricity, production mix SI/SI U	MJ MJ	1.363276326 1.272582537	1.497814191 1.399389292	-0.085461881 -0.049075984 -0.0805394 -0.046267355
622 Natural gas, high pressure, at consumer/AT U	MJ	1.270968222	1.400651136	-0.083082418 -0.046600496
623 Natural gas, burned in power plant/AT U 624 Lignite, burned in power plant/SI U	MJ MJ	1.270968222 1.265496375	1.400651136 1.391212398	-0.083082418 -0.046600496 -0.079850163 -0.04586586
625 Electricity, nuclear, at power plant boiling water reactor/CH U	MJ	1.242603535	1.408444499	-0.115719368 -0.050121595
626 Diesel, burned in diesel-electric generating set/GLO U 627 Electricity, hard coal, at power plant/BE U	MJ MJ	1.224818148 1.221927124	1.545597291 1.342679994	-0.200898619 -0.119880525 -0.076691718 -0.044061152
628 Energy, from coal/AU U	MJ	1.221149874	4.878696258	-1.754038398 -1.903507986
629 Electricity, nuclear, at power plant boiling water reactor/UCTE U	MJ	1.157640274	1.271902655	-0.072486228 -0.041776154
630 Diesel, burned in building machine/GLO U 631 Electricity, hydropower, at power plant/CS U	MJ MJ	1.154671672 1.13764931	4.513275989 1.251009518	-2.66450997 -0.694094347 -0.071998767 -0.041361441
632 Natural gas, burned in gas motor, for storage/DZ U	MJ	1.121658577	1.912378416	-0.43564711 -0.355072729
633 Electricity, hydropower, at power plant/PT U 634 Electricity, industrial gas, at power plant/DE U	MJ MJ	1.114023299 1.108395309	1.225029311	-0.070503541 -0.040502472 -0.071089192 -0.040524364
635 Sweet gas, burned in gas turbine, production/MJ/NO U	MJ MJ	1.108395309 1.069158904	1.220008865 1.762759379	-0.071089192 -0.040524364 -0.396525739 -0.297074735
636 Electricity, production mix BA/BA U	MJ	1.056261688	1.161512087	-0.066847963 -0.038402436
637 Electricity, natural gas, at power plant/FR U 638 Hard coal, burned in power plant/AT U	MJ MJ	1.043643859 1.034249569	1.149521677 1.138802695	-0.067693695 -0.038184123 -0.06698912 -0.037564006
639 Electricity mix/CH U	MJ	1.031155798	1.544536022	-0.423849588 -0.089530636
640 Electricity, high voltage, at grid/CH U 641 Heavy fuel oil, burned in refinery furnace/MJ/RER U	MJ MJ	1.020946335 0.997748877	1.529243587 1.259235019	-0.419653058 -0.088644194 -0.18488256 -0.076603581
642 Electricity mix/IT U	MJ	0.97748877	1.070617812	-0.061677348 -0.035404205
643 Electricity, high voltage, at grid/IT U	MJ	0.963897286	1.060017636	-0.061066681 -0.035053669
644 Electricity, oil, at power plant/ES U 645 Electricity, production mix HR/HR U	MJ MJ	0.938707404 0.938051896	1.032244289 1.03152337	-0.059408346 -0.034128539 -0.059366783 -0.034104691
646 Electricity, medium voltage, at grid/CH U	MJ	0.880062533	1.365849618	-0.403298793 -0.082488293
647 Light fuel oil, burned in industrial furnace 1MW, non-modulating/CH U	MJ M I	0.874841346 0.842312771	0.962069213	-0.050279441 -0.036948427 -0.054615359 -0.030814742
648 Electricity mix/FR U 649 Electricity, high voltage, at grid/FR U	MJ MJ	0.842312771 0.817533225	0.927742873 0.900477467	-0.054615359 -0.030814742 -0.05303317 -0.029911072
650 Electricity, oil, at power plant/GR U	MJ	0.816118041	0.897439509	-0.051649917 -0.02967155
651 Heat, at hard coal industrial furnace 1-10MW/RER U	MJ	0.808255918 0.800809202	0.924513233 0.879432644	-0.066391515 -0.0498658 -0.044538889 -0.034084553
·	IV/I	0.000003202	0.01 3432044	0.07700000 TU.UO4004000
652 Heat, light fuel oil, at industrial furnace 1MW/CH U 653 Electricity, oil, at power plant/PT U	MJ MJ	0.77406912	0.851200655	-0.048988755 -0.02814278
652 Heat, light fuel oil, at industrial furnace 1MW/CH U			0.851200655 0.847494529 0.920111006	-0.048988755 -0.02814278 -0.048823412 -0.028025753 -0.130875686 -0.061145943

i56 Electricity, oil, at power plant/FR U i57 Electricity, hydropower, at pumped storage power plant/IT U	MJ MJ	0.697513112 0.669602478	0.768275916 0.736375593	-0.045242674 -0.02552013 -0.042421948 -0.02435116
58 Heat, heavy fuel oil, at industrial furnace 1MW/RER U	MJ	0.647747417	0.727264801	-0.068965634 -0.01055175
i59 Heavy fuel oil, burned in power plant/NL U i60 Electricity, production mix MK/MK U	MJ MJ	0.646347512 0.637504709	0.711868089 0.701028385	-0.041505271 -0.024015306 -0.04034596 -0.02317771
61 Electricity, oil, at power plant/DE U	MJ	0.559398681	0.61572865	-0.035877878 -0.02045209
i62 Heavy fuel oil, burned in power plant/HR U i63 Natural gas, burned in gas turbine, for compressor station/DZ U	MJ MJ	0.552311894 0.549546388	0.607346597 0.93695236	-0.034954335 -0.020080367 -0.213441328 -0.17396464
64 Electricity, lignite, at power plant/BA U	MJ	0.546551119	0.600845469	-0.034485638 -0.019808712
i65 Natural gas, burned in gas turbine, for compressor station/UCTE U i66 Electricity, lignite, at power plant/MK U	MJ MJ	0.537627995 0.534892782	1.064558748 0.588025446	-0.288308006 -0.238622748 -0.033747813 -0.01938485
67 Electricity, hydropower, at power plant/HR U	MJ	0.533249607	0.586384862	-0.033747934 -0.01938732
i68 Electricity, at cogen ORC 1400kWth, wood, allocation exergy/CH U i69 Electricity, hydropower, at power plant/BA U	MJ MJ	0.51756391 0.512286919	0.574160733 0.5633333362	-0.035481332 -0.02111549 ⁻¹ -0.032421262 -0.018625182
70 Electricity, hydropower, at pumped storage power plant/FR U	MJ	0.483083368	0.532092244	-0.031334154 -0.017674722
i71 Electricity mix/DE U	MJ MJ	0.443069267	0.496529837 0.484840778	-0.033234174 -0.020226396 -0.028759299 -0.01613094
i72 Electricity, natural gas, at power plant/AT U i73 Electricity, high voltage, at grid/DE U	MJ	0.439950538 0.438682442	0.4916137	-0.032905123 -0.02002613
74 Electricity, hard coal, at power plant/AT U	MJ	0.417878614	0.460122301	-0.027066311 -0.015177376
i75 Electricity, hard coal, at power plant/UCTE U i76 Electricity, lignite, at power plant/SI U	MJ MJ	0.414994631 0.410431257	0.429163574 0.451204021	-0.009259425 -0.004909517 -0.02589735 -0.014875414
77 Hard coal, burned in power plant/HR U	MJ	0.406210585	0.446302042	-0.02546708 -0.014624377
i78 Electricity, hydropower, at power plant/SI U i79 Electricity, hydropower, at power plant/GR U	MJ MJ	0.375411849 0.3612705	0.412819841 0.397269027	-0.023759123 -0.01364887 -0.022863839 -0.013134688
80 Electricity, low voltage, production UCTE, at grid/UCTE U	MJ	0.357041471	0.483576411	-0.075842782 -0.050692158
i81 Electricity mix/ES U i82 Electricity, industrial gas, at power plant/FR U	MJ MJ	0.339745561 0.338413358	0.373599508 0.372745441	-0.021501718 -0.012352229 -0.021950448 -0.012381639
83 Electricity, high voltage, at grid/ES U	MJ	0.336381743	0.369900503	-0.02128883 -0.01222993
84 Sour gas, burned in gas turbine, production/MJ/NO U	MJ	0.329226877	0.588790339	-0.143469625 -0.11609383
i85 Natural gas, burned in gas turbine, for compressor station/NL U i86 Lignite, burned in power plant/AT U	MJ MJ	0.326428849 0.321040391	0.54028694 0.353700243	-0.118057156 -0.095800935 -0.02092438 -0.011735472
87 Natural gas, burned in gas turbine, for compressor station/NO U	MJ	0.317822957	0.627770368	-0.169596681 -0.14035073
i88 Electricity, industrial gas, at power plant/BE U i89 Electricity, oil, at power plant/NL U	MJ MJ	0.289728866 0.285853936	0.318631525 0.314831096	-0.018353822 -0.010548836 -0.018356139 -0.01062102
190 Electricity, oil, at power plant/NE of the Electricity, hydropower, at pumped storage power plant/DE U	MJ	0.27238999	0.299819139	-0.01747025 -0.009958899
91 Hard coal, burned in power plant/PL U	MJ	0.261469127	0.291846574	-0.019060854 -0.011316593
i92 Electricity, industrial gas, at power plant/NL U i93 Electricity, hydropower, at pumped storage power plant/ES U	MJ MJ	0.259644299 0.234685345	0.285964795 0.258070412	-0.016673204 -0.009647292 -0.014852624 -0.008532444
94 Natural gas, high pressure, at consumer/CH U	MJ	0.226612644	0.256712427	-0.02098713 -0.009112652
i95 Electricity, industrial gas, at power plant/ES U i96 Natural gas, burned in gas turbine, for compressor station/DE U	MJ MJ	0.223037947 0.222325719	0.245262417 0.276966869	-0.014115491 -0.00810898 -0.03156469 -0.02307646
197 Natural gas, low pressure, at consumer/CH U	MJ	0.220217584	0.249633133	-0.020529881 -0.008885668
98 Heavy fuel oil, burned in power plant/AT U 99 Heavy fuel oil, burned in power plant/BE U	MJ MJ	0.217894291 0.210352387	0.240127079 0.231336637	-0.014243617 -0.00798917 -0.01332546 -0.00765879
99 Reavy Idei oil, burned in power plant/bb o 00 Electricity mix/AT U	MJ	0.204683394	0.225568211	-0.013380029 -0.007504788
01 Electricity, high voltage, at grid/AT U	MJ	0.202656825	0.223334862	-0.013247553 -0.007430484
02 Electricity, oil, at power plant/HR U 03 Electricity mix/BE U	MJ MJ	0.185824563 0.178348168	0.204340911 0.196139976	-0.011760337 -0.00675601 -0.011298153 -0.00649365
'04 Electricity, high voltage, at grid/BE U	MJ	0.176582344	0.194197996	-0.01118629 -0.00642936
05 Energy from LPG 2001-02- just fuel, CO2, CH4 & N2O, energy into seperate I 06 Refinery gas, burned in furnace/MJ/CH U	MJ MJ	0.17494488 0.14852746	0.17494488 0.18530993	-1.98296E-16 -1.41961E-10 -0.022481492 -0.014300978
07 Electricity, hard coal, at power plant/HR U	MJ	0.143368442	0.157518368	-0.008988381 -0.00516154
08 Electricity, hydropower, at pumped storage power plant/AT U	MJ	0.141472132	0.155907205	-0.009247947 -0.00518712
09 Lignite, burned in power plant/FR U 10 Refinery gas, burned in flare/GLO U	MJ MJ	0.136150923 0.128105913	0.149912794 0.161483811	-0.008799083 -0.00496278 -0.023491906 -0.00988599
11 Electricity, hydropower, at pumped storage power plant/BE U	MJ	0.122818489	0.135070567	-0.007780339 -0.00447174
12 Electricity, lignite, at power plant/AT U 13 Electricity, production mix LU/LU U	MJ MJ	0.118416537 0.112671339	0.130463204 0.123910215	-0.007718009 -0.004328658 -0.007137262 -0.004101614
14 Heat from waste, at municipal waste incineration plant/CH U	MJ	0.109053895	0.111068844	-0.001792762 -0.000222188
15 Electricity, lignite, at power plant/UCTE U	MJ	0.107347906	0.111114333	-0.002455703 -0.001310724
16 Electricity, hydropower, at power plant/MK U 17 Electricity, at cogen 500kWe lean burn, allocation exergy/CH U	MJ MJ	0.105188277 0.096661554	0.115669684 0.109573115	-0.006657083 -0.003824323 -0.009011316 -0.00390024
'18 Electricity, high voltage, production CH, at grid/CH U	MJ	0.095908827	0.095973921	-5.25488E-05 -1.25453E-05
19 Electricity, medium voltage, production CH, at grid/CH U 20 Electricity, hydropower, at pumped storage power plant/CH U	MJ MJ	0.094959234 0.092365858	0.095023684 0.10471012	-5.20285E-05 -1.24211E-0 -0.008616278 -0.00372798
21 Electricity, hard coal, at power plant/PL U	MJ	0.087156376	0.097282191	-0.006353618 -0.00377219
22 Natural gas, burned in power plant/LU U 23 Electricity, oil, at power plant/AT U	MJ MJ	0.086033957 0.085728901	0.094615775 0.094476228	-0.005449894 -0.00313192 -0.005604046 -0.0031432
24 Electricity, oil, at power plant/AT 0	MJ	0.083681231	0.092173012	-0.005429825 -0.00306195
25 Electricity mix/CS U	MJ	0.074288447	0.081690863	-0.004701516 -0.002700
26 Electricity, oil, at power plant/BE U 27 Electricity, high voltage, at grid/CS U	MJ MJ	0.074242019 0.073552917	0.081648225 0.080882043	-0.004703103 -0.002703103 -0.004654966 -0.002674159
28 Electricity, hydropower, at pumped storage power plant/LU U	MJ	0.072222328	0.079426448	-0.004574985 -0.00262913
29 Electricity from waste, at municipal waste incineration plant/CH U 30 Heavy fuel oil, burned in power plant/CS U	MJ MJ	0.071150469 0.069143365	0.072421194 0.076033103	-0.001127836 -0.00014289 -0.004375898 -0.00251384
31 Electricity mix/GR U	MJ	0.059078056	0.064964844	-0.0043738891 -0.00214789
32 Electricity, high voltage, at grid/GR U	MJ	0.058493125	0.064321628	-0.003701873 -0.00212663
33 Electricity mix/PT U 34 Electricity, high voltage, at grid/PT U	MJ MJ	0.055426336 0.05487756	0.060949251 0.060345793	-0.003507784 -0.00201513 -0.003473053 -0.0019951
35 Light fuel oil, burned in boiler 100kW, non-modulating/CH U	MJ	0.053359347	0.064497321	-0.007200904 -0.00393706
36 Heavy fuel oil, burned in industrial furnace 1MW, non-modulating/CH U 37 Electricity mix/HR U	MJ MJ	0.052270297 0.051518906	0.05537404 0.056652469	-0.002359879 -0.00074386 -0.003260493 -0.00187306
38 Electricity, hydropower, at pumped storage power plant/CS U	MJ	0.051435607	0.056560869	-0.003255221 -0.00187004
39 Electricity, high voltage, at grid/HR U 40 Electricity, medium voltage, at grid/DE U	MJ MJ	0.050508731 0.048677977	0.055541636 0.062249832	-0.003196562 -0.00183634 -0.007844222 -0.00572763
41 Lignite, burned in power plant/CZ U	MJ	0.045582203	0.052451289	-0.004119103 -0.00274998
42 Electricity, hydropower, at power plant/BE U	MJ	0.045506008	0.050045578	-0.002882727 -0.00165684
43 Electricity, hydropower, at pumped storage power plant/GR U 44 Electricity, hydropower, at pumped storage power plant/PT U	MJ MJ	0.040904283 0.038375916	0.04498016 0.042199855	-0.002588722 -0.00148715 -0.002428709 -0.00139523
45 Electricity, lignite, at power plant/FR U	MJ	0.038292447	0.042162973	-0.002474742 -0.00139578
16 Electricity mix/NL U 17 Electricity, hydropower, at pumped storage power plant/HR U	MJ MJ	0.037806115 0.035320791	0.059564361 0.038840305	-0.012061666 -0.0096965 -0.002235358 -0.00128415
18 Heavy fuel oil, burned in refinery furnace/MJ/CH U	MJ	0.033320791	0.042834127	-0.002233330 -0.00120413
49 Natural gas, burned in gas motor, for storage/NL U	MJ	0.033550774	0.058417198	-0.013684119 -0.01118230
50 Natural gas, burned in gas motor, for storage/RU U 51 Heat, light fuel oil, at boiler 10kW, non-modulating/CH U	MJ MJ	0.031766795 0.031738581	0.066676586 0.042847582	-0.019063134 -0.01584665 -0.008645272 -0.00246372
52 Electricity, high voltage, at grid/NL U	MJ	0.03130439	0.052235945	-0.011554079 -0.00937747
53 Electricity, medium voltage, at grid/NL U 54 Electricity, at wind power plant 2MW, offshore/OCE U	MJ MJ	0.030994445 0.030949642	0.051718757 0.034073524	-0.011439682 -0.0092846 -0.001984959 -0.00113892
55 Natural gas, burned in boiler modulating >100kW/RER U	MJ	0.030949642	0.034073524	-0.001964959 -0.00113692
56 Heat, natural gas, at boiler modulating >100kW/RER U	MJ	0.025410352	0.028234322	-0.001827239 -0.00099673
57 Electricity, industrial gas, at power plant/AT U 58 Electricity, at cogen 200kWe diesel SCR, allocation exergy/CH U	MJ MJ	0.024862814 0.023690936	0.027399685 0.026854705	-0.001625267 -0.00091160 -0.002207947 -0.00095582
59 Electricity, production mix CZ/CZ U	MJ	0.023570011	0.027121938	-0.002129941 -0.00142198
60 Light fuel oil, burned in boiler 10kW, non-modulating/CH U 61 Electricity, oil, at power plant/CS U	MJ MJ	0.023542687	0.063282714 0.025581231	-0.024582785 -0.01515724 -0.001472265 -0.00084577
61 Electricity, oil, at power plant/CS U 62 Natural gas, burned in gas motor, for storage/NO U	MJ	0.023263188 0.023127634	0.025581231 0.04741838	-0.001472265 -0.00084577 -0.013273759 -0.01101698
63 Electricity, natural gas, at power plant/LU U	MJ	0.02106954	0.02317121	-0.001334668 -0.00076700
64 Electricity, production mix HU/HU U 65 Lignite, burned in power plant/HU U	MJ MJ	0.018363532 0.017965787	0.020686313 0.020238289	-0.001417694 -0.00090508 -0.001387004 -0.00088549
66 Energy, from diesel, low population area/AU U	MJ	0.017625188	0.020238289	-0.000427826 -0.00046378
67 Electricity, lignite, at power plant/CZ U	MJ	0.015194068	0.017483763	-0.001373034 -0.00091666
68 Pulverised lignite, at plant/DE U	MJ MJ	0.014845058 0.014659612	0.016343613 0.016786193	-0.00092374 -0.00057481 -0.001274109 -0.00085247
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69 Natural gas, burned in power plant/CENTREL U 70 Electricity, hydropower, at power plant/NL U	MJ	0.013760343	0.015155255	
69 Natural gas, burned in power plant/CENTREL U 70 Electricity, hydropower, at power plant/NL U 71 Natural gas, burned in gas motor, for storage/DE U	MJ MJ	0.012769943	0.018532646	-0.003221029 -0.00254167
69 Natural gas, burned in power plant/CENTREL U 70 Electricity, hydropower, at power plant/NL U	MJ			-0.000883632 -0.0005112 -0.003221029 -0.00254167 -0.000795161 -0.00045451 -6.51683E-05 -1.76269E-0

1775 Electricity, hydropower, at power plant/LU U		MJ	0.011717819	0.012886662	-0.000742275 -0.000426568
1776 Electricity mix, SBB/CH U		MJ	0.010317234	0.011949635	-0.001134711 -0.00049769
1777 Electricity, high voltage, SBB, at grid/CH U 1778 coke oven gas/AU U		MJ MJ	0.010215083 0.009752312	0.011831322 0.01078854	-0.001123477 -0.000492762 -0.000497138 -0.00053909
1779 Electricity, production mix NORDEL/NORDEL U		MJ	0.008732312	0.01078834	-0.001020719 -0.000656553
1780 Electricity, high voltage, production NORDEL, at grid/NORDEL U		MJ MJ	0.008737282	0.010397947	-0.001010613 -0.000650052 -0.001000607 -0.000643616
1781 Electricity, medium voltage, production NORDEL, at grid/NORDEL U 1782 Electricity, industrial gas, at power plant/UCTE U		MJ	0.008650774 0.008562692	0.010294997 0.009415993	-0.000541949 -0.000311352
1783 Wood chips, from industry, hardwood, burned in furnace 50kW/CH U		MJ MJ	0.008103466	0.008961785 0.008896682	-0.000544506 -0.000313813 -0.000675278 -0.00045181
1784 Natural gas, high pressure, at consumer/HU U 1785 Electricity, at wind power plant/CH U		MJ	0.007769594 0.007138278	0.008896682	-0.000675278 -0.00045181 -0.000475847 -0.000262947
1786 Electricity, medium voltage, at grid/IT U		MJ	0.006302716	0.006931226	-0.000399302 -0.000229208
1787 Heavy fuel oil, burned in power plant/HU U 1788 Hard coal, burned in power plant/CZ U		MJ MJ	0.006160007 0.006036822	0.006939189 0.006946551	-0.000475568 -0.000303615 -0.000545526 -0.000364203
1789 Electricity, lignite, at power plant/HU U		MJ	0.005013708	0.005647895	-0.000387071 -0.000247116
1790 Electricity, oil, at power plant/SI U 1791 Electricity, natural gas, at power plant/CENTREL U		MJ MJ	0.00478491 0.004549535	0.005261704 0.005209508	-0.000302828 -0.000173965 -0.000395413 -0.00026456
1792 Electricity, production mix CENTREL/CENTREL U		MJ	0.004532696	0.008945621	-0.002323686 -0.002089239
1793 Electricity, at wind power plant 600kW/CH U 1794 Natural gas, high pressure, at consumer/SK U		MJ MJ	0.004090233 0.003811499	0.004513562 0.00436441	-0.00027266 -0.000150668 -0.000331268 -0.000221643
1795 Electricity, production mix DK/DK U		MJ	0.003517499	0.006573394	-0.001600524 -0.001415021
1796 Electricity, production mix NO/NO U 1797 Natural gas, high pressure, at consumer/CZ U		MJ	0.003247399	0.003864785 0.003525101	-0.000375701 -0.000241685
1797 Natural gas, high pressure, at consumer/oz of 1798 Lignite, burned in power plant/PL U		MJ MJ	0.003078518 0.003067364	0.003525101	-0.000267563 -0.000179019 -0.001313343 -0.001167934
1799 Electricity, production mix PL/PL U		MJ	0.002860551	0.005174531	-0.001224792 -0.001089188
1800 Electricity, at wind power plant 800kW/CH U 1801 Electricity, high voltage, production CENTREL, at grid/CENTREL U		MJ MJ	0.002833896 0.002819749	0.003127197 0.003109235	-0.000188911 -0.00010439 -0.000185878 -0.000103608
1802 Electricity, medium voltage, production CENTREL, at grid/CENTREL U		MJ	0.00279183	0.003078451	-0.000184038 -0.000102582
1803 Electricity, oil, at power plant/HU U 1804 Hard coal, burned in power plant/NORDEL U		MJ MJ	0.002295655 0.002294192	0.002586033 0.008518874	-0.00017723 -0.000113148 -0.003237514 -0.002987168
1805 Electricity, hard coal, at power plant/CZ U		MJ	0.001781357	0.002049802	-0.000160975 -0.00010747
1806 Electricity, production mix photovoltaic, at plant/CH U 1807 Electricity, lignite, at power plant/PL U		MJ MJ	0.001075272 0.001072088	0.00121877 0.001939331	-0.000100128 -4.33699E-05 -0.000459032 -0.00040821
1808 Heavy fuel oil, burned in power plant/DK U		MJ	0.000983889	0.001818193	-0.000442808 -0.000391497
1809 Electricity, hard coal, at power plant/NORDEL U 1810 Electricity, medium voltage, at grid/BE U		MJ MJ	0.000953706 0.000942481	0.003541333 0.001036718	-0.001345849 -0.001241779 -5.98081E-05 -3.44288E-05
1811 Heat, softwood chips from industry, at furnace 300kW/CH U		MJ	0.000814356	0.000910946	-5.70016E-05 -3.9588E-05
1812 Electricity, medium voltage, at grid/ES U 1813 Electricity, hydropower, at power plant/CZ U		MJ MJ	0.000773961 0.000604896	0.0008513 0.000696051	-4.90861E-05 -2.82531E-05 -5.46623E-05 -3.64935E-05
1814 Heavy fuel oil, burned in power plant/CZ U		MJ	0.000580416	0.00076024	-9.98478E-05 -7.99772E-05
1815 Electricity, production mix SK/SK U		MJ MJ	0.000499018	0.000980772	-0.000253728 -0.000228025
1816 Natural gas, burned in cogen 1MWe lean burn/RER U 1817 Electricity, oil, at power plant/DK U		MJ	0.000398552 0.000398425	0.000474633 0.000736276	-7.02056E-05 -5.87555E-06 -0.000179315 -0.000158536
1818 Electricity, medium voltage, at grid/AT U		MJ	0.000348194	0.000383722	-2.27613E-05 -1.27667E-05
1819 Electricity, industrial gas, at power plant/CENTREL U 1820 Electricity mix/CZ U		MJ MJ	0.000345599 0.000276326	0.000422099 0.000317963	-4.37168E-05 -3.27826E-05 -2.49678E-05 -1.6669E-05
1821 Electricity, high voltage, at grid/CZ U		MJ	0.00027359	0.000314815	-2.47206E-05 -1.6504E-05
1822 Lignite briquettes, at plant/DE U 1823 Electricity mix/GB U		MJ MJ	0.000270286 0.000258937	0.00031196 0.000291782	-2.76134E-05 -1.40605E-05 -1.99398E-05 -1.29057E-05
1824 Electricity, high voltage, at grid/GB U		MJ	0.000256373	0.000288893	-1.97424E-05 -1.27779E-05
1825 Electricity, medium voltage, at grid/GB U 1826 Natural gas, high pressure, at consumer/GB U		MJ MJ	0.000251294 0.000230161	0.00028317 0.000259357	-1.93512E-05 -1.25248E-05 -1.77239E-05 -1.14715E-05
1827 Natural gas, burned in power plant/GB U		MJ	0.000230161	0.000259357	-1.77239E-05 -1.14715E-05
1828 Electricity, hydropower, at pumped storage power plant/CZ U		MJ	0.00019076	0.000219507	-1.72384E-05 -1.15086E-05
1829 Electricity, at wind power plant Grenchenberg 150kW/CH U 1830 Electricity, oil, at power plant/CZ U		MJ MJ	0.00016418 0.000158295	0.000181173 0.000207338	-1.09445E-05 -6.04777E-06 -2.72312E-05 -2.1812E-05
1831 Lignite, burned in power plant/SK U		MJ	0.000155355	0.000305121	-7.88813E-05 -7.08854E-05
1832 Wood chips, from industry, hardwood, burned in furnace 300kW/CH U 1833 Hard coal, burned in power plant/SK U		MJ MJ	0.000142568 0.00014209	0.000157569 0.000279069	-9.4235E-06 -5.57773E-06 -7.21462E-05 -6.4833E-05
1834 Electricity, natural gas, at power plant/GB U		MJ	9.99495E-05	0.000112628	-7.69675E-06 -4.9816E-06
1835 Electricity, hydropower, at power plant/HU U 1836 Lignite briquette, burned in stove 5-15kW/RER U		MJ MJ	9.89886E-05 8.28625E-05	0.00011151 9.16085E-05	-7.64217E-06 -4.87895E-06 -5.06643E-06 -3.67951E-06
1837 Electricity, hydropower, at power plant/SK U		MJ	8.12947E-05	0.000159665	-4.12774E-05 -3.70933E-05
1838 Electricity mix/PL U 1839 Electricity, high voltage, at grid/PL U		MJ MJ	6.20229E-05 6.14088E-05	0.000112195 0.000111084	-2.65561E-05 -2.36159E-05 -2.62932E-05 -2.33821E-05
1840 Electricity, hard coal, at power plant/SK U		MJ	5.45335E-05	0.000111004	-2.76894E-05 -2.48826E-05
1841 Electricity, at wind power plant Simplon 30kW/CH U 1842 Electricity, hydropower, at power plant/PL U		MJ MJ	4.99679E-05	5.51395E-05 8.13819E-05	-3.33093E-06 -1.84063E-06 -1.92628E-05 -1.71301E-05
1843 Natural gas, burned in boiler atm. low-NOx condensing non-modulating <100k'		MJ	4.4989E-05 4.40435E-05	4.99266E-05	-4.10598E-06 -1.77713E-06
1844 Electricity, hydropower, at pumped storage power plant/PL U		MJ	4.29432E-05	7.76812E-05	-1.83869E-05 -1.63511E-05
1845 Electricity, lignite, at power plant/SK U 1846 Heavy fuel oil, burned in power plant/GB U		MJ MJ	3.58511E-05 1.43192E-05	7.04126E-05 1.61355E-05	-1.82034E-05 -1.63582E-05 -1.10267E-06 -7.13685E-07
1847 Heavy fuel oil, burned in power plant/SK U		MJ	9.17968E-06	1.80292E-05	-4.66099E-06 -4.18852E-06
1848 Electricity mix/SK U 1849 Electricity, high voltage, at grid/SK U		MJ MJ	7.21788E-06 7.14641E-06	1.33416E-05 1.32095E-05	-3.23605E-06 -2.88769E-06 -3.20401E-06 -2.8591E-06
1850 Electricity, hydropower, at pumped storage power plant/SK U		MJ	4.29196E-06	8.42955E-06	-2.17925E-06 -1.95834E-06
1851 Electricity, oil, at power plant/GB U 1852 Electricity, hydropower, at power plant/GB U		MJ MJ	4.0912E-06 3.49564E-06	4.61016E-06 3.93906E-06	-3.15049E-07 -2.0391E-07 -2.69187E-07 -1.74227E-07
1853 Electricity, oil, at power plant/SK U		MJ	3.27196E-06	6.42625E-06	-1.66134E-06 -1.49294E-06
1854 Electricity, hydropower, at power plant/DK U 1855 Electricity mix/HU U		MJ MJ	3.12337E-06 2.1986E-06	5.77188E-06 2.51754E-06	-1.4057E-06 -1.24281E-06 -1.91087E-07 -1.27851E-07
1856 Electricity, high voltage, at grid/HU U		MJ	2.17684E-06	2.49262E-06	-1.89195E-07 -1.26585E-07
1857 Electricity, medium voltage, at grid/HU U 1858 Electricity, hydropower, at pumped storage power plant/GB U		MJ MJ	2.13415E-06 1.79443E-06	2.44374E-06 2.02205E-06	-1.85485E-07 -1.24103E-07 -1.38183E-07 -8.94365E-08
1859 Electricity, medium voltage, at grid/SK U		MJ	9.98918E-07	1.14382E-06	-8.68188E-08 -5.80882E-08
1860 Light fuel oil, burned in boiler 100kW condensing, non-modulating/CH U 1861 Heat, light fuel oil, at boiler 100kW condensing, non-modulating/CH U		MJ MJ	9.58218E-07 9.58218E-07	1.063E-06 1.063E-06	-6.56901E-08 -3.90932E-08 -6.56901E-08 -3.90932E-08
1862 Electricity, medium voltage, at grid/CZ U		MJ	7.94627E-07	9.09899E-07	-6.90633E-08 -4.62084E-08
1863 Natural gas, burned in gas turbine/DE U 1864 Heat industrial furnace lowS CH U		MJ	6.5023E-09	9.02409E-09	-1.58394E-09 -9.37854E-10
		MJ MJ	-6.70291E-13 -6.70291E-13	-1.4122E-22 -1.4122E-22	-4.18932E-13 -2.51359E-13 -4.18932E-13 -2.51359E-13
		MJ	-9.8416E-13	-2.07348E-22	-6.151E-13 -3.6906E-13
	 	MJ MJ	-3.89331E-12 -4.33482E-12	-8.20261E-22 -9.13281E-22	-2.43332E-12 -1.45999E-12 -2.70926E-12 -1.62556E-12
1869 Electricity, high voltage, Queensland averageAU U	-	MJ	-2.26269E-11	1.21938E-10	-7.01052E-11 -7.44593E-11
	- 	MJ MJ	-2.34692E-11 -2.48231E-10	1.22381E-10 9.66962E-10	-7.12012E-11 -7.46488E-11 -5.8428E-10 -6.30913E-10
	-	MJ	-2.65819E-10	9.59423E-10	-5.86892E-10 -6.3835E-10
		MJ MJ	-4.88007E-10 -4.88007E-10	-1.02816E-19 -1.02816E-19	-3.05004E-10 -1.83003E-10 -3.05004E-10 -1.83003E-10
		MJ	-4.88007E-10	-1.02816E-19	-3.05004E-10 -1.83003E-10
1876 Infra natural gas LP user CH U	-	MJ	-4.88007E-10	-1.02816E-19	-3.05004E-10 -1.83003E-10
1877 Infra natural gas HP user CH U 1878 Natural gas HP user in CH U		MJ MJ	-4.92078E-10 -4.9208E-10	-1.03674E-19 -1.03674E-19	-3.07549E-10 -1.8453E-10 -3.0755E-10 -1.8453E-10
1879 Natural gas furnace lowNOx >100KW Europe U		MJ	-5.98973E-09	-1.26195E-18	-3.74358E-09 -2.24615E-09
		MJ MJ	-6.73697E-09 -3.14477E-08	-1.41938E-18 -6.62556E-18	-4.2106E-09 -2.52636E-09 -1.96548E-08 -1.17929E-08
1882 Electricity oil L U		MJ	-3.73726E-08	-7.87384E-18	-2.33579E-08 -1.40147E-08
	 	MJ MJ	-4.55293E-08 -4.61233E-08	-9.59234E-18 -9.71748E-18	-2.84558E-08 -1.70735E-08 -2.88271E-08 -1.72962E-08
1885 Electricity hydropower in L U		MJ	-4.84971E-08	-1.02176E-17	-3.03107E-08 -1.81864E-08
	 	MJ MJ	-6.51069E-08 -6.54976E-08	-1.37171E-17 -1.37994E-17	-4.06918E-08 -2.44151E-08 -4.0936E-08 -2.45616E-08
1888 Electricity, medium voltage, at grid/SE U		MJ	-6.93992E-08	7.20623E-08	-7.18995E-08 -6.9562E-08
1889 Electricity, high voltage, at grid/SE U 1890 Electricity mix/SE U		MJ MJ	-7.00932E-08 -7.07941E-08	7.2783E-08 7.35108E-08	-7.26185E-08 -7.02577E-08 -7.33447E-08 -7.09602E-08
1891 Pumping storage hydropower Gr U		MJ	-9.56662E-08	-2.01554E-17	-5.97914E-08 -3.58748E-08
		MJ MJ	-9.5768E-08 -1.23105E-07	-2.01769E-17 -2.59365E-17	-5.9855E-08 -3.5913E-08 -7.69409E-08 -4.61645E-08
.555 Elocatory agrate portor plant III OUT TE O		IVIO	1.20100L-07	2.00000L-11	7.55 FOOL OU 01043E-00

4004 Floatricity IIV year in On a imposets II			4 200005 07	0.000005.47	0.550405.00 5.40045.00
1894 Electricity HV use in Gr + imports U 1895 Electricity HV use in P + imports U		MJ MJ	-1.36803E-07 -1.36948E-07	-2.88223E-17 -2.8853E-17	-8.55016E-08 -5.1301E-08 -8.55927E-08 -5.13556E-08
1896 Electricity mix Gr + imports U		MJ	-1.37623E-07	-2.89952E-17	-8.60147E-08 -5.16088E-08
1897 Electricity mix P + imports U		MJ	-1.3777E-07	-2.90261E-17	-8.61062E-08 -5.16637E-08
1898 Electricity hydropower in B U 1899 Electricity coal power plant in Ex-Ju U		MJ MJ	-1.64383E-07 -1.73595E-07	-3.4633E-17 -3.6574E-17	-1.02739E-07 -6.16436E-08 -1.08497E-07 -6.50983E-08
1900 Fuel oil lowS boiler 100kW U		MJ	-1.96532E-07	-4.14063E-17	-1.22832E-07 -7.36995E-08
1901 Infra electricity LV use CH U	-	MJ	-2.1093E-07	-4.44397E-17	-1.31831E-07 -7.90987E-08
1902 Electricity LV use in CH U		MJ MJ	-2.1093E-07	-4.44397E-17 -5.33134E-17	-1.31831E-07 -7.90987E-08
1903 Infra pumping storage hydropower CH U 1904 Pumping storage hydropower CH U		MJ	-2.53048E-07 -2.53048E-07	-5.33134E-17	-1.58155E-07 -9.48929E-08 -1.58155E-07 -9.48929E-08
1905 Electricity gas power plant in E U		MJ	-2.74611E-07	-5.78564E-17	-1.71632E-07 -1.02979E-07
1906 Electricity nuclear PWR UCPTE U		MJ	-2.83029E-07	-5.963E-17	-1.76893E-07 -1.06136E-07
1907 Electricity nuclear power plant UCPTE U		MJ	-3.14477E-07	-6.62556E-17	-1.96548E-07 -1.17929E-07
1908 Electricity oil CH U 1909 Electricity gas power plant in L U		MJ MJ	-3.37156E-07 -3.48405E-07	-7.10337E-17 -7.34038E-17	-2.10722E-07 -1.26433E-07 -2.17753E-07 -1.30652E-07
1910 Electricity HV use in CH + imports U		MJ	-3.61858E-07	-7.62381E-17	-2.26161E-07 -1.35697E-07
1911 Infra electricity HV use CH U	-	MJ	-3.61863E-07	-7.6239E-17	-2.26164E-07 -1.35699E-07
1912 Pumping storage hydropower B U		MJ	-3.62435E-07	-7.63596E-17	-2.26522E-07 -1.35913E-07
1913 Electricity mix CH + imports U 1914 Infra electricity MV use CH U		MJ MJ	-3.6403E-07 -3.78175E-07	-7.66956E-17 -7.96758E-17	-2.27518E-07 -1.36511E-07 -2.36359E-07 -1.41816E-07
1915 Electricity MV use in CH U		MJ	-3.78175E-07	-7.96758E-17	-2.36359E-07 -1.41816E-07
1916 Output gasmotor TJin U		MJ	-3.79279E-07	-7.99085E-17	-2.3705E-07 -1.4223E-07
1917 Pumping storage hydropower L U		MJ	-3.89854E-07	-8.21364E-17	-2.43659E-07 -1.46195E-07
1918 Diesel in generator production U 1919 Wood chip furnace 300kW U		MJ MJ	-4.04773E-07	-8.52795E-17 -9.22237E-17	-2.52983E-07 -1.5179E-07 -2.73583E-07 -1.6415E-07
1920 Electricity gas power plant in UCPTE U		MJ	-4.37733E-07 -4.73951E-07	-9.98543E-17	-2.96219E-07 -1.77732E-07
1921 Natural gas HP user in E U		MJ	-4.77823E-07	-1.0067E-16	-2.98639E-07 -1.79184E-07
1922 Infra natural gas HP user E U	-	MJ	-4.77823E-07	-1.0067E-16	-2.98639E-07 -1.79184E-07
1923 Electricity gas power plant in Ex-Ju U		MJ	-4.966E-07	-1.04626E-16	-3.10375E-07 -1.86225E-07 -3.23926E-07 -1.94356E-07
1924 Electricity HV use in B + imports U 1925 Electricity mix B + imports U	 	MJ MJ	-5.18282E-07 -5.21392E-07	-1.09194E-16 -1.09849E-16	-3.2587E-07 -1.95522E-07
1926 Pumping storage hydropower E U		MJ	-5.4843E-07	-1.15546E-16	-3.42769E-07 -2.05661E-07
1927 Electricity HV use in L + imports U		MJ	-5.57492E-07	-1.17455E-16	-3.48432E-07 -2.09059E-07
1928 Electricity, medium voltage, at grid/FI U		MJ	-5.58764E-07	5.80206E-07	-5.78895E-07 -5.60075E-07
1929 Electricity mix L + imports U 1930 Electricity, high voltage, at grid/FI U		MJ MJ	-5.60836E-07 -5.64351E-07	-1.1816E-16 5.86008E-07	-3.50523E-07 -2.10314E-07 -5.84684E-07 -5.65675E-07
1931 Electricity mix/FI U		MJ	-5.69995E-07	5.91868E-07	-5.9053E-07 -5.71332E-07
1932 Pumping storage hydropower A U		MJ	-5.77636E-07	-1.21699E-16	-3.61022E-07 -2.16613E-07
1933 Coal power plant in Ex-Ju U		MJ	-5.78594E-07	-1.21901E-16	-3.61621E-07 -2.16973E-07
1934 Electricity, medium voltage, at grid/DK U 1935 Electricity, high voltage, at grid/DK U		MJ MJ	-5.89893E-07 -5.95792E-07	6.1253E-07 6.18655E-07	-6.11146E-07 -5.91277E-07 -6.17257E-07 -5.9719E-07
1936 Electricity mix/DK U		MJ	-6.0175E-07	6.24842E-07	-6.2343E-07 -6.03162E-07
1937 Heat industrial furnace S Europe U		MJ	-6.12557E-07	-1.29056E-16	-3.82848E-07 -2.29709E-07
1938 Electricity oil B U		MJ	-6.26411E-07	-1.31975E-16	-3.91507E-07 -2.34904E-07
1939 Electricity hydropower in NL U		MJ MJ	-6.93038E-07	-1.46013E-16	-4.33149E-07 -2.59889E-07 -4.72153E-07 -2.83292E-07
1940 Electricity mix L U 1941 Electricity HV use in E + imports U		MJ	-7.55445E-07 -7.84255E-07	-1.59161E-16 -1.65231E-16	-4.72133E-07 -2.83292E-07 -4.9016E-07 -2.94096E-07
1942 Electricity mix E + imports U		MJ	-7.88961E-07	-1.66222E-16	-4.93101E-07 -2.9586E-07
1943 Electricity lignite power plant in A U		MJ	-7.94822E-07	-1.67457E-16	-4.96764E-07 -2.98058E-07
1944 Electricity HV use in A + imports U		MJ	-8.26019E-07	-1.7403E-16	-5.16262E-07 -3.09757E-07
1945 Electricity mix A + imports U 1946 Output gas turbine N U		MJ MJ	-8.30976E-07 -9.49035E-07	-1.75074E-16 -1.99947E-16	-5.1936E-07 -3.11616E-07 -5.93147E-07 -3.55888E-07
1947 Output Gasmotor N U		MJ	-9.81992E-07	-2.06891E-16	-6.13745E-07 -3.68247E-07
1948 Output Gasmotor D U		MJ	-1.0282E-06	-2.16627E-16	-6.42626E-07 -3.85575E-07
1949 Electricity lignite power plant in F U		MJ	-1.0418E-06	-2.19492E-16	-6.51126E-07 -3.90675E-07
1950 Output gas turbine D U 1951 Electricity hydropower in Gr U		MJ MJ	-1.11162E-06 -1.11569E-06	-2.34202E-16 -2.3506E-16	-6.94765E-07 -4.16859E-07 -6.97308E-07 -4.18385E-07
1952 Electricity oil Ex-Ju U	 	MJ	-1.13875E-06	-2.39918E-16	-7.11722E-07 -4.27033E-07
1953 Electricity oil A U		MJ	-1.17953E-06	-2.4851E-16	-7.37208E-07 -4.42325E-07
1954 Output gas turbine Alg. U		MJ	-1.34643E-06	-2.83673E-16	-8.41519E-07 -5.04912E-07
1955 Electricity oil NL U		MJ	-1.42168E-06	-2.99527E-16	-8.88552E-07 -5.33131E-07
1956 Electricity coal power plant in A U 1957 Pumping storage hydropower I U		MJ MJ	-1.50951E-06 -1.51888E-06	-3.18032E-16 -3.20006E-16	-9.43445E-07 -5.66067E-07 -9.49301E-07 -5.69581E-07
1958 Pumping storage hydropower W-D U		MJ	-1.58926E-06	-3.34834E-16	-9.93289E-07 -5.95973E-07
1959 Electricity lignite power plant in Ex-Ju U		MJ	-1.78747E-06	-3.76593E-16	-1.11717E-06 -6.70301E-07
1960 Electricity coal power plant UCPTE U		MJ	-2.01243E-06	-4.23988E-16	-1.25777E-06 -7.5466E-07
1961 Electricity MV use in aluminium industry U 1962 Pumping storage hydropower F U		MJ MJ	-2.05944E-06 -2.07468E-06	-4.33894E-16 -4.37104E-16	-1.28715E-06 -7.72291E-07 -1.29667E-06 -7.78004E-07
1963 Electricity mix for aluminium U		MJ	-2.09651E-06	-4.41704E-16	-1.31032E-06 -7.86192E-07
1964 Electricity HV use in I + imports U		MJ	-2.172E-06	-4.57608E-16	-1.3575E-06 -8.145E-07
1965 Electricity mix I + imports U		MJ	-2.18503E-06	-4.60354E-16	-1.36565E-06 -8.19387E-07
1966 Electricity HV use in W-D + imports U 1967 Lignite power plant in A U		MJ MJ	-2.27264E-06 -2.28432E-06	-4.78812E-16 -4.81271E-16	-1.4204E-06 -8.52242E-07 -1.4277E-06 -8.56619E-07
1968 Electricity mix W-D + imports U		MJ	-2.28628E-06	-4.81685E-16	-1.42893E-06 -8.57355E-07
1969 Output gas turbine GUS U		MJ	-2.3022E-06	-4.85038E-16	-1.43887E-06 -8.63323E-07
1970 Output Gasmotor GUS U		MJ	-2.40433E-06	-5.06557E-16	-1.50271E-06 -9.01624E-07
1971 Output Gasmotor NL U 1972 Natural gas HP user in F U		MJ MJ	-2.66527E-06 -2.82697E-06	-5.61533E-16 -5.95599E-16	-1.6658E-06 -9.99478E-07 -1.76685E-06 -1.06011E-06
1973 Infra natural gas HP user F U	-	MJ	-2.82697E-06	-5.95599E-16	-1.76685E-06 -1.06011E-06
1974 Electricity HV use in F + imports U		MJ	-2.96679E-06	-6.25058E-16	-1.85424E-06 -1.11255E-06
1975 Electricity mix F + imports U		MJ	-2.98459E-06	-6.28808E-16	-1.86537E-06 -1.11922E-06
1976 Electricity hydropower in UCPTE U 1977 Infra industrial coal furnace 1-10MW U		MJ MJ	-3.09473E-06 -3.327E-06	-6.52014E-16 -7.00948E-16	-1.93421E-06 -1.16052E-06 -2.07937E-06 -1.24762E-06
1978 Industrial coal furnace 1-10MW U		MJ	-3.327E-06	-7.00948E-16	-2.07937E-06 -1.24762E-06
1979 Electricity oil F U		MJ	-3.33013E-06	-7.01609E-16	-2.08133E-06 -1.2488E-06
1980 Electricity oil Gr U		MJ	-3.38164E-06	-7.12462E-16	-2.11353E-06 -1.26812E-06
1981 Electricity hydropower in Ex-Ju U 1982 Lignite power plant in F U		MJ MJ	-3.515E-06 -3.66818E-06	-7.40558E-16 -7.72831E-16	-2.19688E-06 -1.31813E-06 -2.29261E-06 -1.37557E-06
1983 Electricity oil E U		MJ	-3.77142E-06	-7.94583E-16	-2.35714E-06 -1.41428E-06
1984 Electricity gas power plant in F U		MJ	-3.96489E-06	-8.35343E-16	-2.47806E-06 -1.48683E-06
1985 Electricity hydropower in P U		MJ	-3.96868E-06	-8.36141E-16	-2.48042E-06 -1.48825E-06
1986 Electricity gas power plant in A U 1987 Coal power plant in A U		MJ MJ	-4.02333E-06 -4.06814E-06	-8.47656E-16 -8.57095E-16	-2.51458E-06 -1.50875E-06 -2.54259E-06 -1.52555E-06
1988 Output gas turbine NL U		MJ	-4.37965E-06	-9.22727E-16	-2.73728E-06 -1.64237E-06
1989 Electricity gas power plant in B U		MJ	-4.54113E-06	-9.56749E-16	-2.83821E-06 -1.70293E-06
1990 Electricity oil W-D U		MJ	-4.54303E-06	-9.57147E-16	-2.83939E-06 -1.70363E-06
1991 Electricity oil P U		MJ M I	-4.65542E-06 -4.69234E-06	-9.80827E-16	-2.90964E-06 -1.74578E-06
1992 Electricity coal power plant in P U 1993 Electricity nuclear BWR CH U		MJ MJ	-4.69234E-06 -4.81358E-06	-9.88605E-16 -1.01415E-15	-2.93271E-06 -1.75963E-06 -3.00849E-06 -1.80509E-06
1994 Electricity nuclear BWR other UCPTE U		MJ	-5.19805E-06	-1.09515E-15	-3.24878E-06 -1.94927E-06
1995 Electricity lignite power plant in E U		MJ	-5.55903E-06	-1.1712E-15	-3.4744E-06 -2.08464E-06
1996 Electricity nuclear PWR CH U		MJ	-5.88277E-06	-1.23941E-15	-3.67673E-06 -2.20604E-06
1997 Output gas turbine pipeline UCPTE U 1998 Lignite power plant in Ex-Ju U		MJ MJ	-6.07382E-06 -6.62079E-06	-1.27966E-15 -1.3949E-15	-3.79614E-06 -2.27768E-06 -4.13799E-06 -2.4828E-06
1999 Infra pumping storage hydropower UCPTE U	-	MJ	-7.29814E-06	-1.53761E-15	-4.56134E-06 -2.7368E-06
2000 Infra flow through hydropower CH U		MJ	-7.33929E-06	-1.54628E-15	-4.58706E-06 -2.75224E-06
2001 Flow through hydropower CH U		MJ	-7.33929E-06	-1.54628E-15	-4.58706E-06 -2.75224E-06
2002 Electricity coal power plant in B U 2003 Electricity hydropower in W-D U		MJ MJ	-7.93022E-06 -8.85243E-06	-1.67078E-15 -1.86507E-15	-4.95639E-06 -2.97383E-06 -5.53277E-06 -3.31966E-06
2004 Natural gas HP user in B U		MJ	-8.94603E-06	-1.88479E-15	-5.59127E-06 -3.35476E-06
2005 Infra natural gas HP user B U	-	MJ	-8.94603E-06	-1.88479E-15	-5.59127E-06 -3.35476E-06
2006 Electricity mix Ex-Ju U		MJ	-9.04691E-06	-1.90605E-15	-5.65432E-06 -3.39259E-06
2007 Reservoir hydro power plant in CH U 2008 Infra reservoir hydro power plant CH U		MJ MJ	-9.68923E-06 -9.68923E-06	-2.04138E-15 -2.04138E-15	-6.05577E-06 -3.63346E-06 -6.05577E-06 -3.63346E-06
2008 Infra reservoir nydro power plant CH U 2009 Natural gas HP user in A U	- 	MJ	-9.68923E-06 -1.00583E-05	-2.04138E-15 -2.11914E-15	-6.28646E-06 -3.77187E-06
2010 Infra natural gas HP user A U	-	MJ	-1.00583E-05	-2.11914E-15	-6.28646E-06 -3.77187E-06
2011 Electricity coal power plant in I U		MJ	-1.06611E-05	-2.24613E-15	-6.66318E-06 -3.99791E-06
2012 Electricity nuclear power plant in CH U		MJ	-1.06857E-05	-2.25131E-15	-6.67854E-06 -4.00712E-06
2012 Electricity fluctear power plant in C110					

2013 Fuel oil lowS in boiler 1MW U		MJ	-1.07339E-05	-2.26147E-15	-6.70869E-06 -4.02522E-06
2014 Electricity hydropower in E U		MJ	-1.0759E-05	-2.26676E-15	-6.72437E-06 -4.03462E-06
2015 Electricity coal power plant in NL U		MJ	-1.11658E-05	-2.35246E-15	-6.97861E-06 -4.18717E-06
2016 Electricity lignite power plant in Gr U 2017 Electricity coal power plant in F U		MJ MJ	-1.12882E-05 -1.24107E-05	-2.37826E-15 -2.61474E-15	-7.05514E-06 -4.23308E-06 -7.75666E-06 -4.65399E-06
2018 Coal power plant in P U		MJ	-1.2613E-05	-2.65737E-15	-7.88313E-06 -4.72988E-06
2019 Electricity mix P U 2020 Electricity mix Gr U		MJ	-1.35572E-05 -1.58067E-05	-2.85629E-15 -3.33024E-15	-8.47322E-06 -5.08393E-06 -9.87921E-06 -5.92753E-06
2021 Electricity hydropower in A U		MJ	-1.60229E-05	-3.37579E-15	-1.00143E-05 -6.00859E-06
2022 Output gas turbine pipeline D U		MJ	-1.64657E-05	-3.46908E-15	-1.02911E-05 -6.17465E-06
2023 Electricity hydropower in CH U 2024 Lignite power plant in E U		MJ MJ	-1.70285E-05 -1.8406E-05	-3.58765E-15 -3.87786E-15	-1.06428E-05 -6.3857E-06 -1.15037E-05 -6.90224E-06
2025 Electricity gas power plant in I U		MJ	-1.8968E-05	-3.99627E-15	-1.1855E-05 -7.113E-06
2026 Electricity nuclear BWR D U		MJ	-1.91508E-05	-4.0348E-15	-1.19693E-05 -7.18157E-06
2027 Electricity gas power plant in NL U 2028 Electricity hydropower in I U		MJ MJ	-2.00704E-05 -2.075E-05	-4.22852E-15 -4.37172E-15	-1.2544E-05 -7.52638E-06 -1.29688E-05 -7.78126E-06
2029 Electricity HV use in UCPTE U		MJ	-2.11808E-05	-4.46247E-15	-1.3238E-05 -7.94278E-06
2030 Electricity gas power plant in W-D U 2031 Output gas turbine TJin U		MJ	-2.14547E-05 -2.15978E-05	-4.52019E-15 -4.55034E-15	-1.34092E-05 -8.04552E-06 -1.34987E-05 -8.09919E-06
2032 Coal power plant in B U		MJ	-2.20302E-05	-4.64142E-15	-1.37688E-05 -8.26131E-06
2033 Electricity coal power plant in E U		MJ	-2.28307E-05	-4.81009E-15	-1.42692E-05 -8.56152E-06
2034 Electricity mix A U 2035 Diesel in building equipment U		MJ MJ	-2.33757E-05 -2.57699E-05	-4.92491E-15 -5.42934E-15	-1.46098E-05 -8.76588E-06 -1.61062E-05 -9.66373E-06
2036 Electricity mix CH U		MJ	-2.79142E-05	-5.8811E-15	-1.74464E-05 -1.04678E-05
2037 Coal power plant in I U 2038 Coal power plant in NL U		MJ	-2.91261E-05 -2.91538E-05	-6.13643E-15 -6.14228E-15	-1.82038E-05 -1.09223E-05 -1.82211E-05 -1.09327E-05
2039 Output gas turbine pipeline N U		MJ	-2.94274E-05	-6.1999E-15	-1.83921E-05 -1.10353E-05
2040 Natural gas HP user in I U		MJ	-2.99695E-05	-6.31411E-15	-1.87309E-05 -1.12385E-05
2041 Infra natural gas HP user I U 2042 Electricity hydropower in F U	-	MJ MJ	-2.99695E-05 -3.01661E-05	-6.31411E-15 -6.35555E-15	-1.87309E-05 -1.12385E-05 -1.88538E-05 -1.13123E-05
2043 Output gas turbine pipeline Alg U		MJ	-3.02503E-05	-6.37328E-15	-1.89064E-05 -1.13439E-05
2044 Infra electricity HV use UCPTE U 2045 Electricity mix B U	-	MJ MJ	-3.16171E-05 -3.24699E-05	-6.66125E-15 -6.84092E-15	-1.97607E-05 -1.18564E-05 -2.02937E-05 -1.21762E-05
2046 Electricity mix NL U		MJ	-3.46519E-05	-7.30064E-15	-2.16574E-05 -1.29945E-05
2047 Coal power plant in F U		MJ	-3.56682E-05	-7.51476E-15	-2.22926E-05 -1.33756E-05
2048 Lignite power plant in Gr U 2049 Natural gas HP user in D U		MJ MJ	-3.62916E-05 -4.0764E-05	-7.6461E-15 -8.58835E-15	-2.26823E-05 -1.36094E-05 -2.54775E-05 -1.52865E-05
2050 Infra natural gas HP user D U	-	MJ	-4.0764E-05	-8.58835E-15	-2.54775E-05 -1.52865E-05
2051 Output gas turbine pipeline NL U		MJ	-4.2682E-05	-8.99245E-15	-2.66762E-05 -1.60057E-05
2052 Electricity nuclear PWR other UCPTE U 2053 Reservoir hydro power plant in UCPTE U		MJ MJ	-4.30586E-05 -4.47294E-05	-9.07181E-15 -9.42382E-15	-2.69116E-05 -1.6147E-05 -2.79559E-05 -1.67735E-05
2054 Infra reservoir hydro power plant UCPTE U	-	MJ	-4.47294E-05	-9.42382E-15	-2.79559E-05 -1.67735E-05
2055 Natural gas HP user in NL U 2056 Infra natural gas HP user NL U		MJ	-4.69646E-05 -4.69646E-05	-9.89474E-15 -9.89474E-15	-2.93529E-05 -1.76117E-05 -2.93529E-05 -1.76117E-05
2057 Electricity nuclear PWR D U		MJ	-4.92467E-05	-1.03755E-14	-3.07792E-05 -1.84675E-05
2058 Electricity oil I U		MJ	-4.9633E-05	-1.04569E-14	-3.10206E-05 -1.86124E-05
2059 Infra coal cokes U 2060 Coal cokes U	-	MJ MJ	-5.12875E-05 -5.12875E-05	-1.08055E-14 -1.08055E-14	-3.20547E-05 -1.92328E-05 -3.20547E-05 -1.92328E-05
2061 Electricity, peat, at power plant/NORDEL U		MJ	-5.1307E-05	0.000113548	-8.45079E-05 -8.03475E-05
2062 Infra flow through hydropower UCPTE U	-	MJ	-5.44211E-05	-1.14657E-14	-3.40132E-05 -2.04079E-05
2063 Flow through hydropower UCPTE U 2064 Electricity lignite power plant in D U		MJ MJ	-5.44211E-05 -5.91059E-05	-1.14657E-14 -1.24527E-14	-3.40132E-05 -2.04079E-05 -3.69412E-05 -2.21647E-05
2065 Coal power plant in E U		MJ	-6.18712E-05	-1.30353E-14	-3.86695E-05 -2.32017E-05
2066 Electricity coal power plant in D U 2067 Diesel in diesel generator offshore U		MJ	-6.40884E-05 -6.52637E-05	-1.35025E-14 -1.37501E-14	-4.00552E-05 -2.40331E-05 -4.07898E-05 -2.44739E-05
2068 Electricity mix E U		MJ	-6.77648E-05	-1.4277E-14	-4.2353E-05 -2.54118E-05
2069 Electricity nuclear power plant in D U		MJ	-6.83195E-05	-1.43939E-14	-4.26997E-05 -2.56198E-05
2070 Infra fuel gas power plant U 2071 Petroleum gas in gas turbine offshore U	-	MJ	-7.4142E-05 -7.67258E-05	-1.56206E-14 -1.6165E-14	-4.63388E-05 -2.78033E-05 -4.79536E-05 -2.87722E-05
2072 Diesel in diesel generator onshore U		MJ	-8.86908E-05	-1.86858E-14	-5.54318E-05 -3.32591E-05
2073 Petroleum gas in gas turbine onshore U	 	MJ	-9.53249E-05	-2.00835E-14 -2.09347E-14	-5.9578E-05 -3.57468E-05
2074 Electricity mix I U 2075 Electricity, oil, at power plant/SE U		MJ	-9.93651E-05 -0.000110821	7.10718E-05	-6.21032E-05 -3.72619E-05 -9.2281E-05 -8.96116E-05
2076 Output Gasmotor Alg. U		MJ	-0.000118086	-2.48789E-14	-7.38037E-05 -4.42822E-05
2077 Infra output gasmotor U 2078 Electricity, oil, at power plant/FI U	-	MJ	-0.000125545 -0.000134404	-2.64505E-14 5.2791E-05	-7.84657E-05 -4.70794E-05 -9.46501E-05 -9.2545E-05
2079 Electricity, hydropower, at reservoir power plant/FI U		MJ	-0.000144195	0.000340168	-0.00024841 -0.000235954
2080 Peat, burned in power plant/NORDEL U		MJ	-0.000146795	0.000324875	-0.000241787 -0.000229883
2081 Electricity nuclear power plant in F (PWR) U 2082 Coal power plant in D U		MJ	-0.000161777 -0.000184703	-3.40839E-14 -3.89141E-14	-0.00010111 -6.06662E-05 -0.000115439 -6.92635E-05
2083 Infra electricity LV use UCPTE U	-	MJ	-0.000186154	-3.92199E-14	-0.000116346 -6.98078E-05
2084 Electricity LV use UCPTE U 2085 Lignite power plant in D U		MJ	-0.000186154 -0.000191267	-3.92199E-14 -4.0297E-14	-0.000116346 -6.98078E-05 -0.000119542 -7.17249E-05
2086 Electricity, hydropower, at power plant/FI U		MJ	-0.000191207	0.000453558	-0.000331213 -0.000314605
2087 Electricity mix F U		MJ	-0.00020508	-4.32073E-14	-0.000128175 -7.69051E-05
2088 Heavy fuel oil, burned in power plant/SE U 2089 Heavy fuel oil, burned in power plant/FI U		MJ	-0.000207789 -0.000218033	0.00013326 8.56388E-05	-0.000173027 -0.000168022 -0.000153543 -0.000150128
2090 Electricity mix W-D U		MJ	-0.000224816	-4.73654E-14	-0.00014051 -8.43062E-05
2091 Infra lignite power plant U 2092 Natural gas, high pressure, at consumer/SE U	-	MJ	-0.000258537 -0.000297493	-5.447E-14 0.000308909	-0.000161586 -9.69515E-05 -0.000308211 -0.000298191
2093 Infra coal power plant U	-	MJ	-0.000237493	-8.00207E-14	-0.000303211 -0.000230131
2094 Output gas turbine pipeline GUS U		MJ	-0.000431954	-9.10062E-14	-0.000269971 -0.000161983
2095 Electricity MV use in UCPTE U 2096 Infra electricity MV use UCPTE U		MJ	-0.000510268 -0.000512328	-1.07506E-13 -1.0794E-13	-0.000318918 -0.000191351 -0.000320205 -0.000192123
2097 Infra output gas turbine U	-	MJ	-0.00058854	-1.23997E-13	-0.000367837 -0.000220702
2098 Heat, light fuel oil, at boiler 100kW, non-modulating/CH U 2099 Electricity mix UCPTE U		MJ MJ	-0.0007082 -0.000752702	3.28298E-05 -1.58583E-13	-0.000690104 -5.09266E-05 -0.000470439 -0.000282263
2100 Electricity, production mix FI/FI U		MJ	-0.000732702	0.002109076	-0.001540031 -0.001462802
2101 Electricity, industrial gas, at power plant/NORDEL U		MJ	-0.001595059	0.000236609	-0.000921296 -0.000910371
2102 Natural gas furnace >100kW Europe U 2103 Infra industrial furnace U		MJ MJ	-0.001669257 -0.001669263	-3.51687E-13 -3.51689E-13	-0.001043285 -0.000625971 -0.001043289 -0.000625973
2104 Electricity, natural gas, at power plant/NORDEL U		MJ	-0.002056404	0.002135317	-0.002130492 -0.002061229
2105 Natural gas, high pressure, at consumer/FI U		MJ	-0.002132034	0.002213849	-0.002208847 -0.002137037 -0.002619795 -0.002534625
2106 Natural gas, high pressure, at consumer/DK U 2107 Natural gas, burned in power plant/NORDEL U		MJ	-0.002528692 -0.00495822	0.002625728 0.005148487	-0.002619793 -0.002534625
2108 Electricity, hydropower, at power plant/SE U		MJ	-0.005028153	0.003224661	-0.004186964 -0.00406585
2109 Residual oil Europe in boiler 1MW U 2110 Wood chips, from forest, hardwood, burned in furnace 50kW/CH U		MJ MJ	-0.007731089 -0.007734567	-1.62882E-12 0.000351003	-0.004831931 -0.002899158 -0.004043941 -0.004041629
2111 Electricity, hydropower, at pumped storage power plant/NO U		MJ	-0.008710446	0.000331003	-0.004043941 -0.004041629
2112 Electricity, production mix SE/SE U		MJ	-0.009158686	0.005873634	-0.007626464 -0.007405857
2113 Natural gas HP user in Europe U 2114 Infra natural gas HP user Europe U		MJ	-0.010746644 -0.010746644	-2.26416E-12 -2.26416E-12	-0.006716653 -0.004029992 -0.006716653 -0.004029992
2115 Heat, light fuel oil, at industrial furnace 1MW/RER U		MJ	-0.028258133	0.163408456	-0.164634385 -0.027032203
2116 Natural gas, burned in industrial furnace low-NOx >100kW/RER U 2117 Electricity, solar/AU U		MJ	-0.041050498 -0.081673969	0.567767872 0.343738956	-0.508212346 -0.100606023 -0.20401424 -0.221398685
2118 Electricity, low voltage, at grid/CH U		MJ	-0.200700065	0.037572834	-0.219929754 -0.018343145
2119 Operation, Diesel Train/AU U		MJ	-0.684990148 -1.901050201	5.90403519	-3.159965124 -3.429060214 -4.75278448 -5.157802257
2120 Diesel used in industrial machinery/AU U 2121 Electricity, medium voltage, at grid/NO U		MJ	-1.901050201 -1.962900358	8.009536536 0.218348945	-4.75278448 -5.157802257 -1.096058749 -1.085190553
2122 Electricity, hydropower, at power plant/NO U		MJ	-1.971418275	0.22351081	-1.102998009 -1.091931076
2123 Electricity, high voltage, at grid/NO U 2124 Electricity mix/NO U		MJ	-1.994985298 -2.014935151	0.221944643 0.224164089	-1.113988371 -1.10294157 -1.125128255 -1.113970985
2125 Electrictiy wastewater gas AU sent out/AU U	-	MJ	-2.084646073	8.761024312	-5.201230312 -5.644440073
2126 Electriciy, wind power/AU U 2127 Electrictiy oil (internal combustion) sent out/AU U		MJ	-3.121304676 -6.833374973	13.01101907 28.0462715	-7.736523216 -8.395800527 -16.72706253 -18.15258394
2127 Electricity on (internal combustion) sent out/AU U 2128 Electricity waste, sent out/AU U	-	MJ	-7.145582035	30.13558171	-17.87884356 -19.40232019
2129 Electrictiy landfill gas, sent out/AU U	-	MJ	-8.666889886 8.733330133	36.46340263	-21.64302307 -23.48726945
2130 Natural gas, burned in boiler condensing modulating >100kW/RER U 2131 Electricity, bagasse/AU U		MJ	-8.732320122 -11.02282564	0.000198489 45.17661257	-4.366261975 -4.366256636 -26.95129695 -29.24814125

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Selection Sele	, , , , , , , , , , , , , , , , , , ,				
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1207	2135 Bagasse combustion/AU U	MJ	-27.55706409	112.9415314	-67.37824239 -73.12035313
1.58 Exercise processes and control of the company of the comp					
1-00 Interface	2138 Electrictiy natural gas (turbine), sent out/AU U				-114.9314332 -124.7256371
101 February maning year organizationary emerged for a grown strain compression of the					
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2.64 Excistrip betwood LD, per and VI, sur and VII, sur and VI, sur and VII, sur and					
246 Stocking born oan Yennes centrality of 1978 ACRES 1978 (1978 2007 2007 2007 2007 2007 2007 2007 20					
14 Statesty, who college, Austrain averageout, U	2145 Electrictiy brown coal Victoria, sent out/AU U		-661.9641476	2793.868197	
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26.6 Septiment or parties produces for plant sprayage/CPU 0.00 0.0	2152 Fertilising, by broadcaster/CH U	m2	0.101648035	0.121130891	-0.018020414 -0.001462442
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200 1000-1-100	2159 Zinc coating, coils/RER U	m2			-0.000411882 -0.000128646
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2773 Reactivation. Ison minisGLO U					
2175 Berück-14 U					
2.17 Manufaction Manufac					
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2170 Coat mang, incoseffe IV	2177 Recultivation, bentonite mine/DE U	m2	3.15442E-07	4.28392E-07	-6.41087E-08 -4.88407E-08
280 Car brangont usage for Non-Nelevolker per year 1 Teliphorus per Tribbis marphose in a milition 2 183 Series Carl adjusted to commodore weight 2 183 Production Carl and Series Carl adjusted to commodore weight 2 183 Production Carl and Series Carl adjusted to commodore weight 2 183 Production Carl and Series Carl adjusted to commodore weight 2 183 Production Carl and Series Carl adjusted to commodore weight 2 183 Production Carl and Series Carl adjusted to commodore weight 2 183 Production Carl and Series Carl adjusted to commodore weight 2 183 Production Carl and Series Carl adjusted to commodore weight 2 183 Production Carl and Series Carl adjusted to commodore weight 2 183 Production Carl and Series Carl adjusted to commodore weight 2 183 Production Carl and Series Carl adjusted					
2182 Energy usage per Teletra employee in the office 9 0.05214/20 0.0213214/20 0.0	• .				
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2490 Maintenance, goods wagan/EER/II U		р			
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2197 Industrial furnace IMM, ailCHA U		p			
2198 Building mochine/RER/I U	•	•			
2000 Inverse recrifier's Solion 3400, at plant/CH/I U		-			
2201 Maintenance, lorny 28/CH/I U		-			
2203 Carrot Zabriterior 1.500kWa/RER/I	·	•			
200 Control cabinet cogen unit 160NWeRERI U		-			
2205 Electric installation, photovoltaic plant, at plant/CH/I U		-			
2207 Passenger car/RER/I U		•			
2208 Disposai, passenger car/RER/I U		-			
2209 Maintenance, passenger car/RER/I U	<u> </u>	•			
2211 Rolling mil/RER/I U p 2.93502E-08 3.1214E-08 -1.0431E-09 6.21138E-10 p 2.53502E-08 2.1214E-08 -1.81698E-09 2.10522E-09 2.1316-08 2.096114-08	2209 Maintenance, passenger car/RER/I U	p			
2213 Cogen int ORC 1400W/th, wood burning, components for electricity only/CH/ p 2213 Cogen unit ORC 1400W/th, wood burning, components for electricity only/CH/ p 2214 Slanted-roof construction, mounted, on roof/CH/I U 2215 Oil boiler 100W/CH/I U 2215 Oil boiler 100W/CH/I U 2215 Oil boiler 100W/CH/I U 2216 Locomotive/RER/I U 2217 Maintenance, locomotive/RER/I U 2218 Locomotive/RER/I U 2219 Locomotive/RER/I U 2219 Locomotive/RER/I U 2210 Gas motor 200KW/RER/I U 2221 Wind power plant 300W/k, fixed parts/RER/I U 2222 Wind power plant 300W/k, fixed parts/RER/I U 2223 Wind power plant 300W/k), fixed parts/RER/I U 2224 Mogen unit CRC 1400W/kh, wood burning, common components for heat+eler p 2225 Wind power plant 300W/k), wood burning, common components for heat+eler p 2226 Photovoltaic laminate, pc-Si, at plant/RER/I U 2226 Photovoltaic laminate, pc-Si, at plant/RER/I U 2227 More productic laminate, pc-Si, at plant/RER/I U 2228 Photovoltaic laminate, pc-Si, at plant/RER/I U 2229 Roborovoltaic laminate, pc-Si, at plant/RER/I U 2230 Disposal, comotic plant production plant producti		-			
2214 Slanted-roof construction, mounted, on roof/CH/I U		-			
2216 Wind power plant 800kW, moving parts/RER/I U p 1.55997E-08		-			
2216 2216		•			
2218 Locomotive/RER/I U	2216 Wind power plant 800kW, moving parts/RER/I U	•	1.50389E-08	1.65569E-08	-9.64525E-10 -5.53421E-10
2219 Disposal, locomotive/RER/I U		-			
2221 Technical wood drying, infrastructure/RER/I U		-			
2222 Wind power plant 800kW, fixed parts/RER/I U		-			
2223 Road vehicle plant/RER/I U		-			
2225 Oil boiler 100kW/CH/I U		-			
2226 Photovoltaic laminate, pc-Si, at plant/RER/I U	•	•			
2227 Inert material landfill facility/CH/I U		-			
2229 Maintenance, van < 3.5t/RER/I U	2227 Inert material landfill facility/CH/I U	p	3.09771E-09	4.93151E-09	-1.07828E-09 -7.55518E-10
2230 Disposal, van < 3.5t/CH/I U p 2.3223E-09 3.1084E-09 -5.38535E-10 -2.47559E-10 2231 Van < 3.5t/RER/I U p 2.3223E-09 3.1084E-09 -5.38535E-10 -2.47559E-10 2232 Production plant crude oil, onshore/GLO/I U p 1.80249E-09 2.22651E-09 -2.93705E-10 -1.30308E-10 2233 Assembly, generator and motor, cogen unit 160kWe/RER/I U p 1.5242E-09 1.72788E-09 -1.4223E-10 -6.14537E-11 2234 Water storage/CH/I U p 1.51267E-09 1.52726E-09 -9.05299E-12 -5.54639E-12 2235 Pump station/CH/I U p 1.51267E-09 1.52726E-09 -9.05299E-12 -5.54639E-12 2235 Pump station/CH/I U p 1.51267E-09 1.52726E-09 -9.05299E-12 -5.54639E-12 2236 Catalytic converter, oxidation, 20 litre/RER/I U p 1.37614E-09 1.38208E-09 -3.90495E-12 -2.03923E-12 2238 3kWp slanted-roof installation, pc-Si, panel, mounted, on roof/CH/I U p 1.29929E-09 1.47268E-09 -1.20988E-10 -5.24053E-11 2239 Plant onshore, natural gas, production/GLO/I U p 1.29719E-09 2.31284E-09 -5.85554E-10 -4.70136E-11 2241 Flat roof construction, on roof/CH/I U p 1.23656E-09 1.40159E-09 -1.15147E-10 -4.98754E-11 2242 Gas turbine, 10MWe, at production plant/RER/I U p 1.0749E-09 1.1816E-09 -5.03807E-10 -4.93754E-11 2243 Maintenance, cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2245 Sound insulation cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2248 Construction work, cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2249 Assembly, module cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2249 Assembly, module cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2249 Assembly, module cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2249 Assembly, module cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4	·	-			
2232 Production plant crude oil, onshore/GLO/I U 2233 Assembly, generator and motor, cogen unit 160kWe/RER/I U 2234 Water storage/CH/I U 2235 Pump station/CH/I U 2236 Catalytic converter, oxidation, 20 litre/RER/I U 2236 Catalytic converter, oxidation, 20 litre/RER/I U 2237 Packaging box production unit/RER/I U 2238 JRWp slanted-roof installation, pc-Si, panel, mounted, on roof/CH/I U 2239 Plant onshore, natural gas, production/GLO/I U 2240 Electric parts of cogen unit 160kWe/RER/I U 2241 Flat roof construction, on roof/CH/I U 2243 Gas turbine, 10MWe, at production plant/RER/I U 2244 Lorry 21t, municipal waste collection/CH/I U 2245 Sound insulation cogen unit 160kWe/RER/I U 2246 Planning, cogen unit 160kWe/RER/I U 2247 Operation start, cogen unit 160kWe/RER/I U 2248 Assembly, module cogen unit 160kWe/RER/I U 2249 Assembly, module cogen unit 160kWe/RER/I U 2240 Assembly, module cogen unit 160kWe/RER/I U 2241 Assembly, module cogen unit 160kWe/RER/I U 2242 Assembly, module cogen unit 160kWe/RER/I U 2243 Assembly, module cogen unit 160kWe/RER/I U 2244 Assembly, module cogen unit 160kWe/RER/I U 2245 Assembly, module cogen unit 160kWe/RER/I U 2246 Assembly, module cogen unit 160kWe/RER/I U 2247 Assembly, module cogen unit 160kWe/RER/I U 2248 Assembly, module cogen unit 160kWe/RER/I U 2249 Assembly, module cogen unit 160kWe/RER/I U 2240 Assembly, module cogen unit 160kWe/RER/I U 2241 Assembly, module cogen unit 160kWe/RER/I U 2242 Assembly, module cog	· · · · · · · · · · · · · · · · · · ·	-			
2233 Assembly, generator and motor, cogen unit 160kWe/RER/I U p 1.5242E-09 1.72788E-09 -1.42232E-10 -6.14537E-11 2234 Water storage/CH/I U p 1.51267E-09 1.52726E-09 -9.05299E-12 -5.54639E-12 235 Pump station/CH/I U p 1.51267E-09 1.52726E-09 -9.05299E-12 -5.54639E-12 2236 Catalytic converter, oxidation, 20 litre/RER/I U p 1.40359E-09 1.59103E-09 -1.30812E-10 -5.66285E-11 2237 Packaging box production unit/RER/I U p 1.37614E-09 1.38208E-09 -3.90495E-12 -2.03923E-11 2238 3kWp slanted-roof installation, pc-Si, panel, mounted, on roof/CH/I U p 1.2929E-09 1.47268E-09 -1.209828E-10 -5.24053E-11 2239 Plant onshore, natural gas, production/GLO/I U p 1.25719E-09 2.31284E-09 -5.85554E-10 -4.70103E-10 2240 Electric parts of cogen unit 160kWe/RER/I U p 1.23656E-09 1.40159E-09 -1.16081E-10 -5.01763E-11 2241 Flat roof construction, on roof/CH/I U p 1.0749E-09 1.98425E-09 -5.03807E-10 -4.9574E-11 2243 Maintenance, cogen unit 160kWe/RER/I U p 1.0749E-09 1.98425E-09 -5.03807E-10 -4.05542E-11 2244 Lorry 21t, municipal waste collection/CH/I U p 1.04322E-09 1.15459E-09 -6.36887E-11 -4.76834E-11 2245 Sound insulation cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2246 Planning, cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2248 Construction work, cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2248 Construction work, cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2249 Assembly, module cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2249 Assembly, module cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2249 Assembly, module cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2249 Assembly, module cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2249 Assembly, module cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 249 Assembly, module cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681					
2234 Water storage/CH/I U 2235 Pump station/CH/I U 2236 Catalytic converter, oxidation, 20 litre/RER/I U 2237 Packaging box production unit/RER/I U 2237 Packaging box production unit/RER/I U 2238 SWWp slanted-roof installation, pc-Si, panel, mounted, on roof/CH/I U 2239 Plant onshore, natural gas, production/GLO/I U 2240 Electric parts of cogen unit 160kWe/RER/I U 2241 Flat roof construction, on roof/CH/I U 2242 Gas turbine, 10MWe, at production plant/RER/I U 2243 Maintenance, cogen unit 160kWe/RER U 2244 Lorry 21t, municipal waste collection/CH/I U 2245 Sound insulation cogen unit 160kWe/RER/I U 2246 Planning, cogen unit 160kWe/RER/I U 2247 Operation start, cogen unit 160kWe/RER/I U 2248 Assembly, module cogen unit 160kWe/RER/I U 2249 Assembly, module cogen unit 160kWe/RER/I U 2240 Assembly, module cogen unit 160kWe/RER/I U 2241 Assembly, module cogen unit 160kWe/RER/I U 2242 Assembly, module cogen unit 160kWe/RER/I U 2243 Assembly, module cogen unit 160kWe/RER/I U 2244 Assembly, module cogen unit 160kWe/RER/I U 2245 Assembly, module cogen unit 160kWe/RER/I U 2246 Assembly, module cogen unit 160kWe/RER/I U 2247 Assembly, module cogen unit 160kWe/RER/I U 2248 Assembly, module cogen unit 160kWe/RER/I U 2249 Assembly, module cogen unit 160kWe/RER/I U 2240 Assembly, module cogen unit 160kWe/RER/I U 2241 Assembly, module cogen unit 160kWe/RER/I U 2242 Assembly, module cogen unit 160kWe/RER/I U 2243 Asse		•			
2236 Catalytic converter, oxidation, 20 litre/RER/I U 2237 Packaging box production unit/RER/I U 2237 Packaging box production unit/RER/I U 2238 3kWp slanted-roof installation, pc-Si, panel, mounted, on roof/CH/I U 2238 3kWp slanted-roof installation, pc-Si, panel, mounted, on roof/CH/I U 2238 Plant onshore, natural gas, production/GLO/I U 2240 Electric parts of cogen unit 160kWe/RER/I U 2241 Flat roof construction, on roof/CH/I U 2242 Gas turbine, 10MWe, at production plant/RER/I U 2243 Maintenance, cogen unit 160kWe/RER U 2244 Lorry 21t, municipal waste collection/CH/I U 2245 Sound insulation cogen unit 160kWe/RER/I U 2246 Planning, cogen unit 160kWe/RER/I U 2247 Operation start, cogen unit 160kWe/RER/I U 2248 Construction work, cogen unit 160kWe/RER/I U 2249 Assembly, module cogen unit 160kWe/RER/I U 2240 Lorry 21t, module cogen unit 160kWe/RER/I U 2247 Operation start, cogen unit 160kWe/RER/I U 2248 Construction work, cogen unit 160kWe/RER/I U 2249 Assembly, module cogen unit 160kWe/RER/I U 2249 Assembly, module cogen unit 160kWe/RER/I U 2249 Assembly, module cogen unit 160kWe/RER/I U 2240 Lorry 21t, module cogen unit 160kWe/RER/I U 2247 Assembly, module cogen unit 160kWe/RER/I U 2248 Construction work, cogen unit 160kWe/RER/I U 2249 Assembly, module cogen unit 160kWe/RER/I U 2249 Assembly, module cogen unit 160kWe/RER/I U 2240 Lorry 21t, module cogen unit 160kWe/RER/I U 2241 Lorry 21t, module cogen unit 160kWe/RER/I U 2242 Assembly, module cogen unit 160kWe/RER/I U 2243 Lorry 21t, module cogen unit 160kWe/RER/I U 2244 Lorry 21t, module cogen unit 160kWe/RER/I U 2245 Lorry 21t, module cogen unit 160kWe/RER/I U 2246 Lorry 21t	2234 Water storage/CH/I U	p	1.51267E-09	1.52726E-09	-9.05299E-12 -5.54639E-12
2237 Packaging box production unit/RER/I U p 1.37614E-09 1.38208E-09 -3.90495E-12 -2.03923E-12 2238 3kWp slanted-roof installation, pc-Si, panel, mounted, on roof/CH/I U p 1.29929E-09 1.47268E-09 -1.20988E-10 -5.24053E-11 2239 Plant onshore, natural gas, production/GLO/I U p 1.25719E-09 2.31284E-09 -5.85554E-10 -4.70103E-10 2240 Electric parts of cogen unit 160kWe/RER/I U p 1.24428E-09 1.41053E-09 -1.16081E-10 -5.01763E-11 2241 Flat roof construction, on roof/CH/I U p 1.23656E-09 1.40159E-09 -1.15147E-10 -4.98754E-11 2242 Gas turbine, 10MWe, at production plant/RER/I U p 1.0749E-09 1.98425E-09 -5.03807E-10 -4.05542E-10 2243 Maintenance, cogen unit 160kWe/RER U p 1.07456E-09 1.21816E-09 -1.0027E-10 -4.3527E-11 2245 Sound insulation cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2246 Planning, cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2248 Construction work, cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09	·				
2238 3kWp slanted-roof installation, pc-Si, panel, mounted, on roof/CH/I U p 1.29929E-09 1.47268E-09 -1.20988E-10 -5.24053E-11 2239 Plant onshore, natural gas, production/GLO/I U p 1.25719E-09 2.31284E-09 -5.85554E-10 -4.70103E-10 2240 Electric parts of cogen unit 160kWe/RER/I U p 1.24428E-09 1.41053E-09 -1.16081E-10 -5.01763E-11 2241 Flat roof construction, on roof/CH/I U p 1.23656E-09 1.40159E-09 -1.15147E-10 -4.98754E-11 2242 Gas turbine, 10MWe, at production plant/RER/I U p 1.0749E-09 1.98425E-09 -5.03807E-10 -4.05542E-10 2243 Maintenance, cogen unit 160kWe/RER U p 1.07456E-09 1.21816E-09 -1.0027E-10 -4.3257E-11 2244 Lorry 21t, municipal waste collection/CH/I U p 1.03041E-09 1.15459E-09 -6.36887E-11 -4.76834E-11 2246 Planning, cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2247 Operation start, cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2248 Construction work, cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2249 Assembly, module cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2249 Assembly, module cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2249 Assembly, module cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2249 Assembly, module cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 249 Assembly, module cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 249 Assembly, module cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 249 Assembly, module cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 249 Assembly, module cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 249 Assembly, module cogen unit 160kWe/RER/I U					
2240 Electric parts of cogen unit 160kWe/RER/I U p 1.24428E-09 1.41053E-09 -1.16081E-10 -5.01763E-11 2241 Flat roof construction, on roof/CH/I U p 1.23656E-09 1.40159E-09 -1.15147E-10 -4.98754E-11 2242 Gas turbine, 10MWe, at production plant/RER/I U p 1.0749E-09 1.98425E-09 -5.03807E-10 -4.05542E-10 2243 Maintenance, cogen unit 160kWe/RER U p 1.07456E-09 1.21816E-09 -1.0027E-10 -4.33257E-11 2244 Lorry 21t, municipal waste collection/CH/I U p 1.03041E-09 1.15459E-09 -6.36887E-11 -4.76834E-11 2245 Sound insulation cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2247 Operation start, cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2248 Construction work, cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2249 Assembly, module cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11	2238 3kWp slanted-roof installation, pc-Si, panel, mounted, on roof/CH/I U	р			-1.20988E-10 -5.24053E-11
2241 Flat roof construction, on roof/CH/I U p 1.23656E-09 1.40159E-09 -1.15147E-10 -4.98754E-11 2242 Gas turbine, 10MWe, at production plant/RER/I U p 1.0749E-09 1.98425E-09 -5.03807E-10 -4.05542E-10 2243 Maintenance, cogen unit 160kWe/RER U p 1.07456E-09 1.21816E-09 -1.0027E-10 -4.33257E-11 2244 Lorry 21t, municipal waste collection/CH/I U p 1.03422E-09 1.15459E-09 -6.36887E-11 -4.76834E-11 2245 Sound insulation cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2247 Operation start, cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2248 Construction work, cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2249 Assembly, module cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2249 Assembly, module cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11	9 .,				
2243 Maintenance, cogen unit 160kWe/RER U p 1.07456E-09 1.21816E-09 -1.0027E-10 -4.33257E-11 2244 Lorry 21t, municipal waste collection/CH/I U p 1.04322E-09 1.15459E-09 -6.36887E-11 -4.76834E-11 2245 Sound insulation cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2246 Planning, cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2247 Operation start, cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2249 Assembly, module cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2249 Assembly, module cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11	2241 Flat roof construction, on roof/CH/I U	p	1.23656E-09	1.40159E-09	-1.15147E-10 -4.98754E-11
2244 Lorry 21t, municipal waste collection/CH/I U p 1.04322E-09 1.15459E-09 -6.36887E-11 -4.76834E-11 2245 Sound insulation cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2246 Planning, cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2247 Operation start, cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2248 Construction work, cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2249 Assembly, module cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11					
2245 Sound insulation cogen unit 160kWe/RER/I U p 1.03041E-09 -9.61442E-11 -4.15472E-11 2246 Planning, cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2247 Operation start, cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2248 Construction work, cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2249 Assembly, module cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11	·				
2247 Operation start, cogen unit 160kWe/RER/I U p 1.03041E-09 -9.61442E-11 -4.15472E-11 2248 Construction work, cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2249 Assembly, module cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11	2245 Sound insulation cogen unit 160kWe/RER/I U	p	1.03041E-09	1.1681E-09	-9.61442E-11 -4.15472E-11
2248 Construction work, cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11 2249 Assembly, module cogen unit 160kWe/RER/I U p 1.03041E-09 1.1681E-09 -9.61442E-11 -4.15472E-11	5, S				
	2248 Construction work, cogen unit 160kWe/RER/I U	p	1.03041E-09	1.1681E-09	-9.61442E-11 -4.15472E-11
p 1.00041E-09 1.1001E-09 -3.01442E-11 -4.10412E-11	· · · · · · · · · · · · · · · · · · ·				
	2200 Supply all impurspent all output cogett utilt 100KYVe/KEK/I U	þ	1.03041E-09	1.1001E-09	·0.01772L-11 -4.104/2E-11

2254 Cagos unit ODC 4400kWh wood huming huilding/CH/LL		0.091265 10	1 107295 00	6 942665 11 4 072195 11
2251 Cogen unit ORC 1400kWth, wood burning, building/CH/I U 2252 Water works/CH/I U	p p	9.98136E-10 8.75696E-10	1.10728E-09 8.84147E-10	-6.84266E-11 -4.07218E-11 -5.24086E-12 -3.21085E-12
2253 Hydraulic digger/RER/I U	р	7.501E-10	2.68226E-09	-1.08306E-09 -8.49099E-10
2254 Chemical plant, organics/RER/I U 2255 Catalytic converter, SCR, 200 litre/RER/I U	p p	7.48825E-10 7.01793E-10	1.0745E-09 7.95513E-10	-2.53921E-10 -7.17577E-11 -6.54058E-11 -2.83142E-11
2256 3kWp flat roof installation, pc-Si, on roof/CH/I U	p	6.72045E-10	7.61731E-10	-6.25801E-11 -2.71062E-11
2257 Chopper, stationary, electric/RER/I U 2258 Non-ferrous metal, mine, underground/GLO/I U	p p	6.70055E-10 5.92291E-10	1.32133E-08 6.28294E-10	-1.1307E-08 -1.2362E-09 -1.99611E-11 -1.60422E-11
2259 3kWp flat roof installation, mc-Si, on roof/CH/I U	p	5.64518E-10	6.39854E-10	-5.25673E-11 -2.27692E-11
2260 Cogen unit 500kWe, components for electricity only/RER/I U	р	5.37009E-10	6.0874E-10	-5.00629E-11 -2.1668E-11
2261 Maintenance, barge/RER/I U 2262 Maintenance, transoceanic freight ship/RER/I U	p p	5.19732E-10 5.15177E-10	6.33197E-10 6.62141E-10	-7.02737E-11 -4.31907E-11 -8.55043E-11 -6.14603E-11
2263 Gas power plant, 100MWe/RER/I U	р	4.85132E-10	5.33805E-10	-3.09202E-11 -1.77525E-11
2264 Transoceanic freight ship/OCE/I U	р	4.77413E-10	6.10855E-10	-7.67299E-11 -5.67127E-11
2265 Mine, gravel/sand/CH/I U 2266 Cogen unit 500kWe, common components for heat+electricity/RER/I U	p p	4.42016E-10 4.40347E-10	5.85796E-10 4.99166E-10	-1.04506E-10 -3.92744E-11 -4.10515E-11 -1.77678E-11
2267 Barge/RER/I U	p	4.08574E-10	4.96065E-10	-5.19737E-11 -3.55171E-11
2268 Scrap preparation plant/RER/I U	р	3.48149E-10	5.91949E-10	-1.38842E-10 -1.04957E-10
2269 Cogen unit 200kWe diesel SCR, components for electricity only/RER/I U 2270 Concrete mixing plant/CH/I U	p p	3.30258E-10 3.28089E-10	3.74362E-10 3.75847E-10	-3.07794E-11 -1.33244E-11 -3.54217E-11 -1.23365E-11
2271 Planing mill/RER/I U	p	3.27679E-10	3.63696E-10	-2.16222E-11 -1.43945E-11
2272 Cogen unit 200kWe diesel SCR, common components for heat+electricity/REF	р	2.80717E-10	3.18205E-10	-2.61623E-11 -1.13257E-11
2273 Regional distribution, oil products/RER/I U 2274 Diesel-electric generating set production 10MW/RER/I U	p p	2.43964E-10 2.26591E-10	3.10734E-10 2.85935E-10	-4.88114E-11 -1.79589E-11 -3.71663E-11 -2.21779E-11
2275 Slag compartment/CH/I U	p	2.21469E-10	2.27643E-10	-4.97997E-12 -1.1943E-12
2276 Water treatment plant, deionisation/CH/I U	p	2.0274E-10	2.07197E-10	-4.10388E-12 -3.53631E-13
2277 Explosive production plant/CH/I U 2278 Hazardous waste incineration plant/CH/I U	p p	2.01335E-10 1.99304E-10	2.22857E-10 2.04466E-10	-1.22876E-11 -9.23454E-12 -3.59238E-12 -1.57029E-12
2279 Flat glass plant/RER/I U	p p	1.59536E-10	1.60027E-10	-3.15053E-13 -1.75062E-13
2280 Air separation plant/RER/I U	р	1.31869E-10 1.29135E-10	1.82478E-10	-2.8273E-11 -2.23365E-11
2281 Municipal waste incineration plant/CH/I U 2282 Facade construction, integrated, on roof/CH/I U	p p	1.24644E-10	1.40588E-10 1.41278E-10	-7.73674E-12 -3.71616E-12 -1.16067E-11 -5.02737E-12
2283 Mine, clay/CH/I U	p p	1.21181E-10	1.33543E-10	-7.61277E-12 -4.74899E-12
2284 Barge tanker/RER/I U	p	1.11159E-10	1.37132E-10 2.01857E-10	-1.83E-11 -7.67357E-12 -5.01052E-11 -4.11558E-11
2285 Helicopter/GLO/I U 2286 3kWp slanted-roof installation, pc-Si, laminated, integrated, on roof/CH/I U	p p	1.10596E-10 1.0693E-10	1.212E-10	-9.95718E-12 -4.3129E-12
2287 Hard coal power plant/RER/I U	p p	1.02981E-10	1.13235E-10	-6.525E-12 -3.72862E-12
2288 Aluminium hydroxide, plant/RER/I U 2289 Mine, limestone/CH/I U	p	9.99077E-11 9.58091E-11	1.01716E-10 1.16557E-10	-1.18589E-12 -6.22584E-13 -1.19457E-11 -8.80216E-12
2290 3kWp slanted-roof installation, mc-Si, laminated, integrated, on roof/CH/I U	p p	8.99047E-11	1.01903E-10	-8.37182E-12 -3.62621E-12
2291 Underground mine, hard coal/GLO/I U	p p	8.82944E-11	1.20672E-10	-1.85342E-11 -1.38431E-11
2292 Open cast mine, lignite/RER/I U	р	8.53726E-11 8.4442E-11	9.39091E-11 9.5711E-11	-5.42999E-12 -3.10645E-12 -7.86314E-12 -3.40588E-12
2293 Slanted-roof construction, integrated, on roof/CH/I U 2294 Wind power plant 2MW, offshore, fixed parts/OCE/I U	p p	8.16727E-11	8.99162E-11	-5.23808E-12 -3.00549E-12
2295 Wind power plant 2MW, offshore, moving parts/OCE/I U	p p	8.16726E-11	8.99162E-11	-5.23809E-12 -3.0055E-12
2296 3kWp facade installation, pc-Si, laminated, integrated, on roof/CH/I U	p	7.64638E-11	8.66681E-11	-7.12022E-12 -3.08408E-12
2297 Facade construction, mounted, on roof/CH/I U 2298 Wind power plant 600kW, moving parts/CH/I U	p p	7.48921E-11 7.26015E-11	8.48866E-11 8.01156E-11	-6.97387E-12 -3.02069E-12 -4.83972E-12 -2.67437E-12
2299 Uranium underground mine/RNA/I U	p	7.02001E-11	7.73691E-11	-4.59618E-12 -2.57282E-12
2300 Lignite power plant/RER/I U	p	6.67492E-11	7.34281E-11	-4.24894E-12 -2.43E-12
2301 3kWp facade installation, mc-Si, laminated, integrated, on roof/CH/I U 2302 Uranium mill/US/I U	p p	6.42176E-11 5.41111E-11	7.27876E-11 5.9637E-11	-5.97987E-12 -2.59015E-12 -3.54277E-12 -1.98315E-12
2303 Operation, maintenance, port/RER/I U	p p	5.25114E-11	6.95894E-11	-9.95493E-12 -7.12305E-12
2304 Rock wool plant/CH/I U	р	5.18101E-11	5.64855E-11	-3.05873E-12 -1.61663E-12
2305 Coal stove, 5-15 kW/RER/I U 2306 Cement plant/CH/I U	p p	4.79774E-11 4.72216E-11	5.30413E-11 5.13808E-11	-2.93346E-12 -2.13044E-12 -2.71955E-12 -1.43967E-12
2307 3kWp facade installation, pc-Si, panel, mounted, on roof/CH/I U	p p	4.59977E-11	5.21363E-11	-4.28326E-12 -1.85527E-12
2308 Refinery/RER/I U 2309 Nuclear power plant, pressure water reactor 1000MW/FR/I U	p	4.3721E-11 4.34997E-11	5.50932E-11	-7.96995E-12 -3.40233E-12
2310 Oil power plant 500MW/RER/I U	p p	4.17981E-11	4.79139E-11 4.59618E-11	-2.82253E-12 -1.59163E-12 -2.64611E-12 -1.51752E-12
2311 Wind power plant 800kW, moving parts/CH/I U	р	4.01484E-11	4.43035E-11	-2.67624E-12 -1.47889E-12
2312 Wastewater treatment plant, class 3/CH/I U 2313 Furnace, wood chips, hardwood, 50kW/CH/I U	p p	3.9347E-11 3.91033E-11	5.98488E-11 9.87156E-10	-1.12727E-11 -9.22903E-12 -4.86375E-10 -4.61677E-10
2314 Wind power plant 600kW, fixed parts/CH/I U	p	3.863E-11	4.26281E-11	-2.57513E-12 -1.42297E-12
2315 3kWp facade installation, mc-Si, panel, mounted, on roof/CH/I U	р	3.85306E-11	4.36726E-11	-3.58792E-12 -1.55409E-12
2316 Open cast mine, hard coal/GLO/I U 2317 Transoceanic tanker/OCE/I U	p p	3.78226E-11 3.7764E-11	4.77005E-11 5.1286E-11	-5.74823E-12 -4.12968E-12 -8.7744E-12 -4.74761E-12
2318 Interim storage, nuclear waste to dispose in final repository SF, HLW, and ILW	p	3.61063E-11	3.97719E-11	-2.34504E-12 -1.32056E-12
2319 Platform, crude oil, offshore/OCE/I U	р	3.50901E-11	4.55361E-11	-6.89479E-12 -3.55129E-12
2320 Wind power plant 30kW, moving parts/CH/I U 2321 Gas boiler/RER/I U	p p	3.33127E-11 2.90687E-11	3.67603E-11 3.29516E-11	-2.2206E-12 -1.22703E-12 -2.70994E-12 -1.17291E-12
2322 Plant offshore, natural gas, production/OCE/I U	p	2.02857E-11	3.78467E-11	-9.63363E-12 -7.92729E-12
2323 Wind power plant 800kW, fixed parts/CH/I U	p	2.00743E-11	2.21517E-11	-1.33805E-12 -7.39381E-13
2324 Wind power plant 150kW, moving parts/CH/I U 2325 Wind power plant 30kW, fixed parts/CH/I U	p p	1.8242E-11 1.66558E-11	2.013E-11 1.83796E-11	-1.21606E-12 -6.71999E-13 -1.11029E-12 -6.13566E-13
2326 Preservative treatment, infrastructure/RER/I U	p p	1.5742E-11	1.68933E-11	-8.12117E-13 -3.39154E-13
2327 Final repository for nuclear waste SF, HLW, and ILW/CH/I U	p	1.43882E-11	1.58529E-11	-9.3795E-13 -5.26742E-13
2328 Wastewater treatment plant, class 4/CH/I U 2329 Sanitary landfill facility/CH/I U	p p	1.42074E-11 1.25769E-11	2.34319E-11 1.62387E-11	-4.67992E-12 -4.54458E-12 -2.93609E-12 -7.25677E-13
2330 Uranium open pit mine/RNA/I U	p p	1.03868E-11	1.14476E-11	-6.80043E-13 -3.80673E-13
2331 Nuclear power plant, pressure water reactor 1000MW/UCTE/I U 2332 Aluminium melting furnace/RER/I U	p	1.02739E-11 9.99926E-12	1.1288E-11 1.11087E-11	-6.43319E-13 -3.70765E-13 -7.17734E-13 -3.91672E-13
2333 Sorting plant for construction waste/CH/I U	p p	9.90767E-12	1.08016E-11	-6.05905E-13 -2.88063E-13
2334 Nuclear power plant, pressure water reactor 1000MW/DE/I U	р	9.5917E-12	1.05576E-11	-6.15179E-13 -3.50682E-13
2335 Final repository for nuclear waste LLW/CH/I U 2336 Hard coal coke production plant/RER/I U	p p	9.1465E-12 8.2229E-12	1.00806E-11 1.20292E-11	-5.98829E-13 -3.35227E-13 -2.10609E-12 -1.70085E-12
2337 Interim storage, nuclear waste to dispose in final repository LLW/CH/I U	p	8.16731E-12	9.00178E-12	-5.35089E-13 -2.99377E-13
2338 Wind power plant 150kW, fixed parts/CH/I U	р	7.29707E-12	8.05227E-12	-4.86428E-13 -2.68776E-13
2339 Aluminium casting, plant/RER/I U 2340 Nuclear spent fuel conditioning plant/CH/I U	p p	6.36662E-12 5.53424E-12	6.65509E-12 6.11084E-12	-1.89144E-13 -9.93213E-14 -3.72298E-13 -2.04303E-13
2341 Nuclear power plant, boiling water reactor 1000MW/DE/I U	p	3.87932E-12	4.26996E-12	-2.48807E-13 -1.41832E-13
2342 Wafer factory/DE/I U	р	3.78127E-12	4.17267E-12	-2.51886E-13 -1.39508E-13
2343 Run-of-river hydropower plant/RER/I U 2344 Photovoltaic module factory/DE/I U	p p	3.28853E-12 3.19484E-12	6.10932E-12 3.52535E-12	-1.505E-12 -1.3158E-12 -2.12656E-13 -1.17851E-13
2345 Mine, iron/GLO/I U	p	2.65419E-12	3.67564E-12	-5.75584E-13 -4.4587E-13
2346 Anode, plant/RER/I U	р	2.59995E-12	4.38681E-12	-9.96539E-13 -7.90323E-13
2347 Furnace, wood chips, hardwood, 300kW/CH/I U 2348 Storage 10'000 I/RER/I U	p p	2.59665E-12 2.20104E-12	2.86811E-12 2.62121E-12	-1.70411E-13 -1.01044E-13 -3.87718E-13 -3.24483E-14
2349 Nuclear fuel fabrication plant/GLO/I U	p	2.0756E-12	2.2873E-12	-1.35661E-13 -7.60382E-14
2350 Mine, bentonite/DE/I U	р	1.68189E-12	2.3005E-12	-3.60943E-13 -2.57667E-13
2351 Heat exchanger of cogen unit 160kWe/RER/I U 2352 Uranium enrichment centrifuge plant/GLO/I U	p p	1.37724E-12 1.37001E-12	1.64014E-12 1.51021E-12	-2.42603E-13 -2.03036E-14 -8.99328E-14 -5.02647E-14
2353 Nuclear power plant, pressure water reactor 1000MW/CH/I U	p	1.35842E-12	1.53972E-12	-1.26503E-13 -5.47926E-14
2354 Nuclear spent fuel reprocessing plant/RER/I U	p n	1.28317E-12 1.25458E-12	1.41344E-12 1.3827E-12	-8.33394E-14 -4.69306E-14
2355 Uranium conversion plant/US/I U 2356 Heating, sanitary equipment cogen unit 160kWe/RER/I U	p p	1.25458E-12 1.10263E-12	1.3827E-12 1.31312E-12	-8.21398E-14 -4.59798E-14 -1.94231E-13 -1.62553E-14
2357 Nuclear power plant, boiling water reactor 1000MW/CH/I U	р	9.97518E-13	1.13065E-12	-9.28974E-14 -4.02365E-14
2358 Nuclear power plant, boiling water reactor 1000MW/UCTE/I U	p	9.61658E-13	1.05655E-12	-6.02009E-14 -3.46954E-14
2359 Production plant, natural gas/GLO/I U 2360 Uranium enrichment diffusion plant/US/I U	p p	9.51165E-13 8.03186E-13	1.76872E-12 8.85172E-13	-4.52127E-13 -3.65429E-13 -5.25571E-14 -2.94288E-14
2361 Phosphoric acid plant, fertiliser grade/US/I U	р	7.38993E-13	7.70775E-13	-2.11181E-14 -1.06637E-14
2362 Paper machine, at paper mill/RER/I U 2363 Wastewater treatment plant, class 5/CH/I U	p n	5.58671E-13 5.38974E-13	6.59914E-13 6.29193E-13	-5.7715E-14 -4.35282E-14 -5.21835E-14 -3.8035E-14
2364 Reservoir hydropower plant, alpine region/RER/I U	p p	5.38974E-13 5.1855E-13	8.28621E-13	-1.6557E-13 -1.44501E-13
2365 Port facilities/RER/I U	р	4.77166E-13	6.14144E-13	-8.09264E-14 -5.6052E-14
2366 Run-of-river hydropower plant/CH/I U 2367 Reservoir hydropower plant, non alpine regions/RER/I U	p p	4.46784E-13 4.23208E-13	5.09675E-13 4.66848E-13	-4.30861E-14 -1.98048E-14 -2.75603E-14 -1.60804E-14
2368 Cogen unit 1MWe, common components for heat+electricity/RER/I U	p	4.22465E-13	5.03111E-13	-7.4418E-14 -6.22809E-15
2369 Cogen unit 1MWe, components for heat only/RER/I U	p	4.22465E-13	5.03111E-13	-7.4418E-14 -6.22809E-15

2370 Cogen unit 1MWe, components for electricity only/RER/I U		р	4.22465E-13	5.03111E-13	-7.4418E-14 -6.22809E-15
2371 Operation, maintenance, airport/RER U 2372 Liquid storage tank, chemicals, organics/CH/I U		p p	3.85525E-13 3.80708E-13	3.8554E-13 4.21427E-13	-1.15526E-17 -3.44764E-18 -3.29158E-14 -7.80303E-15
2373 Photovoltaic cell factory/DE/I U		р	3.59415E-13	3.96597E-13	-2.39243E-14 -1.32584E-14
2374 Integrated paper mill/RER/I U		p	2.65909E-13	3.13968E-13	-2.72273E-14 -2.08308E-14
2375 Reservoir hydropower plant/CH/I U		р	2.50307E-13	2.83743E-13	-2.33341E-14 -1.01026E-14
2376 Aircraft, freight/RER/I U 2377 Mine, bauxite/GLO/I U		p p	1.37409E-13 9.25358E-14	1.37413E-13 1.43521E-13	-3.47761E-18 -3.2742E-19 -2.84483E-14 -2.25366E-14
2377 Willie, Baukite/GEO/TO 2378 Waste paper sorting plant/RER/I U		p p	8.60988E-14	9.65016E-14	-6.11763E-15 -4.28521E-15
2379 Storage building, chemicals, solid/CH/I U		p	4.35061E-14	1.02516E-13	-3.00672E-14 -2.89431E-14
2380 Pulp plant/RER/I U		р	4.25192E-14	4.60889E-14	-2.54814E-15 -1.02161E-15
2381 Phosphate rock mine/US/I U		р	3.84538E-14	3.99265E-14	-9.17187E-16 -5.55459E-16
2382 Phosphate rock mine/MA/I U 2383 Non-integrated paper mill/RER/I U		p	2.32356E-14 1.33831E-14	2.47101E-14 1.59429E-14	-1.14083E-15 -3.33677E-16 -1.62834E-15 -9.31485E-16
2384 Lignite dust production plant/RER/I U		p p	1.14158E-14	1.25682E-14	-7.10356E-16 -4.42033E-16
2385 Wastewater treatment plant, class 1/CH/I U		p	5.18496E-15	9.14697E-15	-2.99199E-15 -9.70022E-16
2386 Airport/RER/I U		р	3.854E-15	3.85395E-15	-1.15036E-19 1.60959E-19
2387 Disposal, airport/RER/I U		р	3.84449E-15	3.84509E-15	-4.75185E-19 -1.25361E-19
2388 Lignite briquettes production plant/RER/I U		p	2.31101E-16	2.66732E-16 3.24172E-17	-2.36091E-17 -1.20222E-17 -2.78516E-18 2.02927E-17
2389 Mine, vermiculite/ZA/I U 2390 Glass production site/RER/I U		p p	4.99247E-17 1.62948E-17	3.24172E-17 3.21109E-17	-2.76516E-16 2.02927E-17 -8.23877E-18 -7.57726E-18
2391 Glass sorting site/RER/I U		p	1.50684E-17	1.66281E-17	-1.00376E-18 -5.55941E-19
2392 Open cast mine, peat/NORDEL/I U		p	-1.96899E-16	3.42729E-16	-2.76783E-16 -2.62845E-16
2393 Magnesium plant/RER/I U		р	-3.71376E-16	5.51174E-17	-3.96085E-16 -3.04076E-17
2394 Infra boiler oil 10kW U	-	p	-4.4464E-15	-9.36789E-25	-2.779E-15 -1.6674E-15
2395 Infra boiler oil 100kW U 2396 Infra power saw U	-	p p	-1.29711E-14 -4.57548E-14	-2.73282E-24 -9.63985E-24	-8.10694E-15 -4.86417E-15 -2.85967E-14 -1.7158E-14
2397 Ceramic plant/CH/I U		p p	-1.31479E-13	2.61916E-13	-3.12035E-13 -8.13603E-14
2398 Infra skid steer loader U	-	p	-3.12834E-13	-6.59094E-23	-1.95521E-13 -1.17313E-13
2399 Infra interim storage C U		p	-3.78358E-13	-7.97144E-23	-2.36474E-13 -1.41884E-13
2400 Infra final storage C U		р	-3.78358E-13	-7.97144E-23	-2.36474E-13 -1.41884E-13
2401 Infra hydraulic digger U 2402 Infra furnace saw mill 300 kW U	-	p	-4.26631E-13 -4.37733E-13	-8.98847E-23 -9.22237E-23	-2.66644E-13 -1.59986E-13 -2.73583E-13 -1.6415E-13
2403 Wastewater treatment plant, class 2/CH/I U	-	p p	-6.64285E-13	3.30191E-12	-3.1471E-12 -8.19088E-13
2404 Infra power plant oil CH U	-	p	-9.01892E-13	-1.90015E-22	-5.63683E-13 -3.3821E-13
2405 Silicone plant/RER/I U		p P	-1.04662E-12	1.21915E-14	-5.29436E-13 -5.29372E-13
2406 Methanol plant/GLO/I U		р	-1.14434E-12	8.86009E-13	-1.88608E-12 -1.44265E-13
2407 Infra interim storage B U		p	-1.76714E-12	-3.7231E-22	-1.10446E-12 -6.62678E-13
2408 Infra building equipment U 2409 Blast oxygen furnace converter/RER/I U	-	p	-3.1697E-12 -4.15127E-12	-6.67809E-22 2.86869E-11	-1.98106E-12 -1.18864E-12 -1.80715E-11 -1.47667E-11
2410 Infra final storage B U		p p	-4.6314E-12	-9.75766E-22	-2.89463E-12 -1.73678E-12
2411 Infra nuclear power plant BWR U	-	p	-4.81358E-12	-1.01415E-21	-3.00849E-12 -1.80509E-12
2412 Infra nuclear power plant PWR U		р	-5.88277E-12	-1.23941E-21	-3.67673E-12 -2.20604E-12
2413 Blast furnace/RER/I U		р	-6.04118E-12	2.77905E-11	-1.86245E-11 -1.52072E-11
2414 Electric arc furnace converter/RER/I U		p	-1.17311E-11	4.3897E-12	-9.00674E-12 -7.11402E-12
2415 Solar photovoltaic farm/AU U 2416 Non-ferrous metal, smelter/GLO/I U		p p	-1.49736E-11 -1.70742E-11	6.30188E-11 5.99154E-12	-3.74026E-11 -4.05898E-11 -1.26366E-11 -1.04291E-11
2417 Infra boiler oil 1MW U	-	р	-2.16771E-11	-4.56704E-21	-1.35482E-11 -8.12891E-12
2418 Infra saw mill to stock U	-	p	-2.36813E-11	-4.9893E-21	-1.48008E-11 -8.8805E-12
2419 Infra nuclear power plant BWR UCPTE U	-	р	-2.43489E-11	-5.12995E-21	-1.52181E-11 -9.13084E-12
2420 Infra power plant oil counties U	-	p	-7.38702E-11	-1.55633E-20	-4.61689E-11 -2.77013E-11
2421 Gas combined cycle power plant, 400MWe/RER/I U 2422 Aluminium oxide, plant/RER/I U		p	-8.5364E-11 -1.02562E-10	1.9413E-15 1.08378E-10	-4.2683E-11 -4.26829E-11 -1.15815E-10 -9.51245E-11
2423 Infra diesel generator production U	_	p p	-1.53955E-10	-3.24359E-20	-9.62216E-11 -5.77329E-11
2424 Infra petroleum gas turbine U	-	p	-1.72051E-10	-3.62485E-20	-1.07532E-10 -6.4519E-11
2425 Wooden board manufacturing plant, organic bonded boards/RER/I U		p	-1.85427E-10	1.9918E-12	-1.74901E-10 -1.25182E-11
2426 Infra regio distribution CH U	-	р	-2.30712E-10	-4.86076E-20	-1.44195E-10 -8.65171E-11
2427 Infra nuclear power plant PWR UCPTE U	-	p	-2.54082E-10	-5.35312E-20 -5.69389E-20	-1.58801E-10 -9.52807E-11 -1.6891E-10 -1.01346E-10
2428 Infra reprocessing spent fuel U 2429 Infra fuel element production U		p p	-2.70256E-10 -2.70256E-10	-5.69389E-20	-1.6891E-10 -1.01346E-10 -1.6891E-10 -1.01346E-10
2430 Infra enrichment centrifuge U	-	p	-2.77084E-10	-5.83774E-20	-1.73177E-10 -1.03906E-10
2431 Aluminium electrolysis, plant/RER/I U		p p	-2.8469E-10	1.07617E-10	-2.14947E-10 -1.7736E-10
2432 Chopper, mobile, diesel/RER/I U		р	-4.33072E-10	4.1962E-12	-2.1866E-10 -2.18608E-10
2433 Non-ferrous metal, mine, surface/GLO/I U		p	-4.33296E-10	2.35774E-10	-3.66795E-10 -3.02276E-10
2434 Infra uranium ore deep mining U 2435 Infra enrichment diffusion U	-	p p	-8.42511E-10 -9.25421E-10	-1.77504E-19 -1.94972E-19	-5.26569E-10 -3.15941E-10 -5.78388E-10 -3.47033E-10
2436 Coal power plant/AU U		p	-1.20944E-09	5.11378E-09	-3.03241E-09 -3.29081E-09
2437 Infra uranium ore mining U	-	p P	-1.26377E-09	-2.66257E-19	-7.89854E-10 -4.73912E-10
2438 Infra floatglass U	-	р	-1.62376E-09	-3.42102E-19	-1.01485E-09 -6.08911E-10
2439 Infra conversion U	-	Р	-2.00397E-09	-4.22207E-19	-1.25248E-09 -7.5149E-10
2440 Infra uranium ore processing U 2441 Hyrdro power station/AU U	-	p p	-2.00598E-09 -2.61792E-09	-4.22629E-19 1.10255E-08	-1.25374E-09 -7.52242E-10 -6.54291E-09 -7.10049E-09
2442 Gas power plant/AU U		p p	-2.6583E-09	1.10233E-08 1.10696E-08	-6.58343E-09 -7.14445E-09
2443 Sawmill/RER/I U		p	-2.97344E-09	3.23566E-10	-3.06692E-09 -2.30088E-10
2444 Wind turbine/AU U		p	-3.2687E-09	1.36254E-08	-8.10186E-09 -8.79227E-09
2445 Infra exploration U	-	р	-4.13877E-09	-8.71976E-19	-2.58673E-09 -1.55204E-09
2446 Residual material landfill facility/CH/I U 2447 Industrial furnace, coal, 1-10 MW/RER/I U		p	-4.56795E-09 -6.78259E-09	4.44705E-09 2.06019E-09	-4.94701E-09 -4.06799E-09 -4.86905E-09 -3.97373E-09
2448 Lorry 16t/RER/I U		p p	-2.5241E-08	3.08607E-08	-5.1661E-08 -4.44066E-09
2449 Disposal, lorry 16t/CH/I U		p	-2.5241E-08	3.08606E-08	-5.1661E-08 -4.44066E-09
2450 Maintenance, lorry 16t/CH/I U		р	-2.5554E-08	3.05143E-08	-5.16419E-08 -4.42636E-09
2451 Amorphous solar module 60W/AU U	-	p	-4.95924E-08	2.08718E-07	-1.23877E-07 -1.34433E-07
2452 Polycrystalline solar module 60W/AU U	-	p	-5.17486E-08 -1.02165E-07	2.17793E-07	-1.29263E-07 -1.40278E-07 -6.38531E-08 -3.83118E-08
2453 Infra production oil offshore U 2454 Infra regio distribution Europe U	-	p p	-1.02165E-07 -1.04368E-07	-2.15246E-17 -2.19888E-17	-6.38531E-08 -3.83118E-08 -6.52301E-08 -3.91381E-08
2455 Infra production oil onshore U	-	p p	-1.26931E-07	-2.67424E-17	-7.93316E-08 -4.7599E-08
2456 Infra refinery U	-	р	-2.28814E-07	-4.82076E-17	-1.43008E-07 -8.58051E-08
2457 Infra transport long distance U	-	р	-2.2904E-07	-4.82552E-17	-1.4315E-07 -8.58898E-08
2458 Furnace, wood chips, softwood, 300kW/CH/I U		р	-2.62322E-07	1.15713E-08	-2.55306E-07 -1.8588E-08
2459 Power saw, without catalytic converter/RER/I U 2460 Infra freighter inland U	_	p p	-1.80462E-06 -2.0937E-06	1.9675E-07 -4.41112E-16	-1.86022E-06 -1.41146E-07 -1.30856E-06 -7.85139E-07
2461 Infra tanker inland U	-	р	-2.68169E-05	-5.64991E-15	-1.67605E-05 -1.00563E-05
2462 Infra pipeline offshore U		р	-2.95897E-05	-6.23411E-15	-1.84936E-05 -1.10961E-05
	-				
2463 Infra oceanic freighter U	-	р	-0.000140019	-2.94998E-14	-8.75117E-05 -5.2507E-05
2464 Infra pipeline onshore U	- - -	p p	-0.000425588	-8.96649E-14	-0.000265992 -0.000159595
2464 Infra pipeline onshore U 2465 Infra oceanic tanker U	- - -	р р р	-0.000425588 -0.000982312	-8.96649E-14 -2.06958E-13	-0.000265992 -0.000159595 -0.000613945 -0.000368367
2464 Infra pipeline onshore U	- - -	р р р	-0.000425588	-8.96649E-14	-0.000265992 -0.000159595
2464 Infra pipeline onshore U 2465 Infra oceanic tanker U 2466 Steel Frame Office Chair	- - -	р р р	-0.000425588 -0.000982312 -0.0475	-8.96649E-14 -2.06958E-13 -7.23102E-17	-0.000265992 -0.000159595 -0.000613945 -0.000368367 -0.035 -0.0125
2464 Infra pipeline onshore U 2465 Infra oceanic tanker U 2466 Steel Frame Office Chair 2467 Mobile Phone Electronics 2468 Mobile phone charger adapter 2469 Mobile phone charger	- - -	р р р р р	-0.000425588 -0.000982312 -0.0475 -0.066666667 -0.066666667	-8.96649E-14 -2.06958E-13 -7.23102E-17 -1.11802E-17 1.42109E-14 -1.11802E-17	-0.000265992 -0.000159595 -0.000613945 -0.000368367 -0.035 -0.0125 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025
2464 Infra pipeline onshore U 2465 Infra oceanic tanker U 2466 Steel Frame Office Chair 2467 Mobile Phone Electronics 2468 Mobile phone charger adapter 2469 Mobile phone charger 2470 Mobile Phone Casing	-	р р р р р р	-0.000425588 -0.000982312 -0.0475 -0.066666667 -0.066666667 -0.066666667	-8.96649E-14 -2.06958E-13 -7.23102E-17 -1.11802E-17 1.42109E-14 -1.11802E-17 -1.11802E-17	-0.000265992 -0.000159595 -0.000613945 -0.000368367 -0.035 -0.0125 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025
2464 Infra pipeline onshore U 2465 Infra oceanic tanker U 2466 Steel Frame Office Chair 2467 Mobile Phone Electronics 2468 Mobile phone charger adapter 2469 Mobile phone charger 2470 Mobile Phone Casing 2471 mobile phone battery	-	р р р р р р	-0.000425588 -0.000982312 -0.0475 -0.066666667 -0.066666667 -0.066666667 -0.066666667	-8.96649E-14 -2.06958E-13 -7.23102E-17 -1.11802E-17 1.42109E-14 -1.11802E-17 -1.11802E-17 -1.11802E-17	-0.000265992 -0.000159595 -0.000613945 -0.000368367 -0.035 -0.0125 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025
2464 Infra pipeline onshore U 2465 Infra oceanic tanker U 2466 Steel Frame Office Chair 2467 Mobile Phone Electronics 2468 Mobile phone charger adapter 2469 Mobile phone charger 2470 Mobile Phone Casing	-	P P P P P P P P	-0.000425588 -0.000982312 -0.0475 -0.066666667 -0.066666667 -0.066666667	-8.96649E-14 -2.06958E-13 -7.23102E-17 -1.11802E-17 1.42109E-14 -1.11802E-17 -1.11802E-17	-0.000265992 -0.000159595 -0.000613945 -0.000368367 -0.035 -0.0125 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025
2464 Infra pipeline onshore U 2465 Infra oceanic tanker U 2466 Steel Frame Office Chair 2467 Mobile Phone Electronics 2468 Mobile phone charger adapter 2469 Mobile phone charger 2470 Mobile Phone Casing 2471 mobile phone battery 2472 Office Desk	-	р р р р р р	-0.000425588 -0.000982312 -0.0475 -0.066666667 -0.066666667 -0.066666667 -0.066666667 -0.066666667 -0.09375	-8.96649E-14 -2.06958E-13 -7.23102E-17 -1.11802E-17 1.42109E-14 -1.11802E-17 -1.11802E-17 -1.11802E-17 2.91477E-16	-0.000265992 -0.000159595 -0.000613945 -0.000368367 -0.035 -0.0125 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025
2464 Infra pipeline onshore U 2465 Infra oceanic tanker U 2466 Steel Frame Office Chair 2467 Mobile Phone Electronics 2468 Mobile phone charger adapter 2469 Mobile phone charger 2470 Mobile Phone Casing 2471 mobile phone battery 2472 Office Desk 2473 Modem 2 2474 Power Adapter 2475 Keyboard	-	P P P P P P P	-0.000425588 -0.000982312 -0.0475 -0.066666667 -0.066666667 -0.066666667 -0.066666667 -0.09375 -0.11875 -0.125 -0.15625	-8.96649E-14 -2.06958E-13 -7.23102E-17 -1.11802E-17 1.42109E-14 -1.11802E-17 -1.11802E-17 -1.11802E-17 2.91477E-16 -2.3986E-17 2.62077E-15 -7.52037E-14	-0.000265992 -0.000159595 -0.000613945 -0.000368367 -0.035 -0.0125 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025 -0.0875 -0.00625 -0.0875 -0.03125 -0.125 -1.49739E-15 -0.125 -0.03125
2464 Infra pipeline onshore U 2465 Infra oceanic tanker U 2466 Steel Frame Office Chair 2467 Mobile Phone Electronics 2468 Mobile phone charger adapter 2469 Mobile phone charger 2470 Mobile Phone Casing 2471 mobile phone battery 2472 Office Desk 2473 Modem 2 2474 Power Adapter 2475 Keyboard 2476 Computer Mouse	-	P P P P P P P P	-0.000425588 -0.000982312 -0.0475 -0.066666667 -0.066666667 -0.066666667 -0.066666667 -0.066666667 -0.09375 -0.11875 -0.125 -0.15625 -0.15625	-8.96649E-14 -2.06958E-13 -7.23102E-17 -1.11802E-17 1.42109E-14 -1.11802E-17 -1.11802E-17 -1.11802E-17 -2.91477E-16 -2.3986E-17 2.62077E-15 -7.52037E-14 -1.9764E-17	-0.000265992 -0.000159595 -0.000613945 -0.000368367 -0.035 -0.0125 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025 -0.0875 -0.00625 -0.0875 -0.03125 -0.125 -1.49739E-15 -0.125 -0.03125 -0.125 -0.03125
2464 Infra pipeline onshore U 2465 Infra oceanic tanker U 2466 Steel Frame Office Chair 2467 Mobile Phone Electronics 2468 Mobile phone charger adapter 2469 Mobile phone charger 2470 Mobile Phone Casing 2471 mobile phone battery 2472 Office Desk 2473 Modem 2 2474 Power Adapter 2475 Keyboard 2476 Computer Mouse 2477 Laptop Docking Station	-	P P P P P P P P	-0.000425588 -0.000982312 -0.0475 -0.066666667 -0.066666667 -0.066666667 -0.09375 -0.11875 -0.125 -0.15625 -0.15625 -0.25	-8.96649E-14 -2.06958E-13 -7.23102E-17 -1.11802E-17 -1.11802E-17 -1.11802E-17 -1.11802E-17 -1.11802E-17 2.91477E-16 -2.3986E-17 2.62077E-15 -7.52037E-14 -1.9764E-17 4.24151E-16	-0.000265992 -0.000159595 -0.000613945 -0.000368367 -0.035 -0.0125 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025 -0.0875 -0.00625 -0.0875 -0.03125 -0.125 -1.49739E-15 -0.125 -0.03125 -0.125 -0.03125 -0.125 -0.03125 -0.125 -0.03125
2464 Infra pipeline onshore U 2465 Infra oceanic tanker U 2466 Steel Frame Office Chair 2467 Mobile Phone Electronics 2468 Mobile phone charger adapter 2469 Mobile phone charger 2470 Mobile Phone Casing 2471 mobile phone battery 2472 Office Desk 2473 Modem 2 2474 Power Adapter 2475 Keyboard 2476 Computer Mouse 2477 Laptop Docking Station 2478 Car usage for 4d Teleworker per yr	-	P P P P P P P P P P P P P P P P P P P	-0.000425588 -0.000982312 -0.0475 -0.066666667 -0.066666667 -0.066666667 -0.09375 -0.11875 -0.125 -0.15625 -0.15625 -0.25 -0.5	-8.96649E-14 -2.06958E-13 -7.23102E-17 -1.11802E-17 -1.11802E-17 -1.11802E-17 -1.11802E-17 -1.11802E-17 2.91477E-16 -2.3986E-17 2.62077E-15 -7.52037E-14 -1.9764E-17 4.24151E-16 7.50677E-17	-0.000265992 -0.000159595 -0.000613945 -0.000368367 -0.035 -0.0125 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025 -0.0875 -0.0625 -0.0875 -0.03125 -0.125 -0.03125 -0.125 -0.03125 -0.125 -0.03125 -0.125 -0.03125 -0.125 -0.03125 -0.125 -0.03125 -0.125 -0.03125 -0.125 -0.03125
2464 Infra pipeline onshore U 2465 Infra oceanic tanker U 2466 Steel Frame Office Chair 2467 Mobile Phone Electronics 2468 Mobile phone charger adapter 2469 Mobile phone charger 2470 Mobile Phone Casing 2471 mobile phone battery 2472 Office Desk 2473 Modem 2 2474 Power Adapter 2475 Keyboard 2476 Computer Mouse 2477 Laptop Docking Station	-	P P P P P P P P	-0.000425588 -0.000982312 -0.0475 -0.066666667 -0.066666667 -0.066666667 -0.09375 -0.11875 -0.125 -0.15625 -0.15625 -0.25	-8.96649E-14 -2.06958E-13 -7.23102E-17 -1.11802E-17 -1.11802E-17 -1.11802E-17 -1.11802E-17 -1.11802E-17 2.91477E-16 -2.3986E-17 2.62077E-15 -7.52037E-14 -1.9764E-17 4.24151E-16	-0.000265992 -0.000159595 -0.000613945 -0.000368367 -0.035 -0.0125 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025 -0.0875 -0.00625 -0.0875 -0.03125 -0.125 -1.49739E-15 -0.125 -0.03125 -0.125 -0.03125 -0.125 -0.03125 -0.125 -0.03125
2464 Infra pipeline onshore U 2465 Infra oceanic tanker U 2466 Steel Frame Office Chair 2467 Mobile Phone Electronics 2468 Mobile phone charger adapter 2469 Mobile phone charger 2470 Mobile Phone Casing 2471 mobile phone battery 2472 Office Desk 2473 Modem 2 2474 Power Adapter 2475 Keyboard 2476 Computer Mouse 2477 Laptop Docking Station 2478 Car usage for 4d Teleworker per yr 2479 Car usage 2d teleworker per year	-	P P P P P P P P P P P P P P P P P P P	-0.000425588 -0.000982312 -0.0475 -0.066666667 -0.066666667 -0.066666667 -0.09375 -0.11875 -0.125 -0.15625 -0.15625 -0.25 -0.5	-8.96649E-14 -2.06958E-13 -7.23102E-17 -1.11802E-17 1.42109E-14 -1.11802E-17 -1.11802E-17 -1.11802E-17 2.91477E-16 -2.3986E-17 2.62077E-15 -7.52037E-14 -1.9764E-17 4.24151E-16 7.50677E-17 -2.08167E-16	-0.000265992 -0.000159595 -0.000613945 -0.000368367 -0.035 -0.0125 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025 -0.041666667 -0.025 -0.0875 -0.0625 -0.0875 -0.03125 -0.125 -0.03125 -0.125 -0.03125 -0.125 -0.03125 -0.125 -0.03125 -0.125 -0.03125 -0.125 -0.03125 -0.125 -0.03125 -0.125 -0.03125 -0.125 -0.03125 -0.125 -0.03125 -0.125 -0.03125 -0.125 -0.03125 -0.125 -0.03125 -0.125 -0.03125

Inventory Data

Substance	Comportment	l lm:4	Total	Non tolowarker 2	D. Tolowarkor	4D Tolowerker
Substance	Compartment			Non teleworker 2		4D Teleworker
Additives	Raw	kg	-3.57637E-05	6.23782E-05	-5.60764E-05	-4.20655E-05
Air Allovo	Raw	kg	-0.001594203 0.013142955	2.42549E-08 0.013142955	-0.001448257 -2.83645E-18	-0.000145971
Alloys	Raw	kg	0.043671839	0.070031437	-0.016485382	-4.02736E-19
Aluminium, 24% in bauxite, 11% in crude ore, in ground	Raw	kg			-0.001822457	-0.009874216
Aluminium, in ground	Raw	kg ka	-0.000151767 -4.25777E-13	0.00212628 1.80017E-12	-1.06749E-12	-0.00045559 -1.15846E-12
Aluminum hydroxide	Raw	kg	1.3595E-05	1.45207E-05	-7.03244E-07	
Anhydrite, in ground Anionic Flocculant	Raw	kg m2	4.22452E-10	4.22452E-10	-7.03244E-07 -9.11716E-26	-2.22532E-07 -1.29451E-26
	Raw Raw	m3	-2.950435128	12.09224105	-9.11716E-26 -7.213944581	-7.828731599
bagasse Barita 15% in crudo oro, in ground	Raw	kg ka	0.011887857	0.016589363	-0.002915806	-0.0017857
Barite, 15% in crude ore, in ground	Raw	kg ka	-0.000914601	0.00011108	-0.002913808	-0.0017837
Baryte, in ground	Raw	kg ka	0.043066378	0.047422312	-0.000002091	-0.001637022
Basalt, in ground	Raw	kg ka	4.256356229	4.431911865	-0.002718911	-0.09119909
Bauxite, in ground Biomass	Raw	kg ka	0.052102429	0.052102429	-1.12445E-17	-1.59656E-18
Borax, in ground	Raw	kg ka	-8.15747E-07	8.23507E-07	-1.12445E-17 -1.23689E-06	-4.02362E-07
Calcite, in ground	Raw	kg ka	1.760452451	2.168968956	-0.238820347	-0.169696157
Calcium sulfate, in ground	Raw	kg ka	-2.15138E-08	3.27321E-13	-0.236620347 -1.95443E-08	-1.96988E-09
Carbon	Raw	kg ka	0.00493302	0.005054254	-5.81401E-05	-6.30945E-05
Carbon dioxide, in air	Raw	kg ka	-5.552008713	1.120546834	-6.142128159	-0.530427389
Chromium, 25.5 in chromite, 11.6% in crude ore, in ground	Raw	kg ka	-0.169561966	0.078773975	-0.136038236	-0.112297705
Chromium, in ground	Raw	kg ka	-8.91326E-06	1.07414E-06	-6.44352E-06	-3.54387E-06
Chrysotile, in ground	Raw	kg ka	5.41594E-07	2.06838E-06	-7.78684E-07	-7.48102E-07
Cinnabar, in ground	Raw	kg ka	1.22497E-08	1.52672E-07	-7.16162E-08	-6.88061E-08
Clay, bentonite, in ground	Raw	kg ka	0.504421337	0.563489794	-0.029038788	-0.030029669
Clay, unspecified, in ground	Raw	kg ka	1.098199033	1.209967547	-0.06992642	-0.041842093
Coagulant	Raw	kg m3	1.55838E-09	1.55838E-09	-3.36322E-25	-4.7753E-26
Coal washery waste	Raw		0.037363543	0.037363543	-8.06362E-18	-1.14492E-18
Coal, 13.3 MJ per kg, in ground	Raw	kg kg	-11.95493835	50.45669342	-29.9306095	-32.48102227
Coal, 18 MJ per kg, in ground	Raw	kg	0.024806842	0.496735075	-0.248386232	-0.223542001
Coal, 18.5 MJ per kg, in ground	Raw	kg	-19.00126567	77.77655371	-46.41126706	-50.36655233
Coal, 19.5 MJ per kg, in ground	Raw	kg	0.000760414	0.000760414	-1.64109E-19	-2.33012E-20
Coal, 20.5 MJ per kg, in ground	Raw	kg	-78.9830809	337.6499328	-199.8037815	-216.8292322
Coal, 21.5 MJ per kg, in ground	Raw	kg	-97.9643866	450.4795815	-263.0162121	-285.427756
Coal, 22.1 MJ per kg, in ground	Raw	kg	0.002835123	0.002835123	-6.11863E-19	-8.6876E-20
Coal, 22.6 MJ per kg, in ground	Raw	kg	0.159593025	0.159593025	-3.44426E-17	-4.89037E-18
Coal, 28.0 MJ per kg, in ground	Raw	kg	0.185535806	0.33088352	-0.069706836	-0.075640878
Coal, 29.3 MJ per kg, in ground	Raw	kg	-0.81782982	0.11005332	-0.598337741	-0.329545399
Coal, brown, 10 MJ per kg, in ground	Raw	kg	-0.011418523	0.004025268	-0.010407107	-0.005036684
Coal, brown, 14.1 MJ per kg, in ground	Raw	kg	0.017649111	0.017649111	-3.80895E-18	-5.40817E-19
Coal, brown, 8 MJ per kg, in ground	Raw	kg	0.033083133	0.662313433	-0.331177053	-0.298053247
Coal, brown, 8.1 MJ per kg, in ground	Raw	kg	-261.4324638	1103.394873	-654.5272554	-710.3000811
Coal, brown, 8.2 MJ per kg, in ground	Raw	kg	0.354859785	0.354859785	-7.65841E-17	-1.08739E-17
Coal, brown, in ground	Raw	kg	8.566282102	9.45267407	-0.568090714	-0.318301254
Coal, hard, unspecified, in ground	Raw	kg	5.575429458	7.364186702	-1.036630703	-0.752126541
Cobalt, in ground	Raw	kg	-6.4005E-08	2.26385E-08	-4.47129E-08	-4.19307E-08
Colemanite, in ground	Raw	kg	1.67027E-05	1.98573E-05	-2.13386E-06	-1.02071E-06
Copper, 0.99% in sulfide, Cu 0.36% and Mo 8.2E-3% in crude ore, in ground	Raw	kg	0.010465951	0.010671456	-0.000131524	-7.39818E-05
Copper, 1.18% in sulfide, Cu 0.39% and Mo 8.2E-3% in crude ore, in ground	Raw	kg	0.057963698	0.059104074	-0.000729851	-0.000410525
Copper, 1.42% in sulfide, Cu 0.81% and Mo 8.2E-3% in crude ore, in ground	Raw	kg	0.015354763	0.015656851	-0.000193339	-0.000108749
Copper, 2.19% in sulfide, Cu 1.83% and Mo 8.2E-3% in crude ore, in ground	Raw	kg	0.07626648	0.07776694	-0.000960307	-0.000540153
Copper, in ground	Raw	kg	-0.095486208	0.041421319	-0.080892008	-0.056015519
Diatomite, in ground	Raw	kg	7.30819E-10	1.57942E-09	-6.32178E-10	-2.16418E-10
Dolomite, in ground	Raw	kg	3.142561963	3.313996704	-0.082429746	-0.089004995
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Energy, from biomass	Raw	MJ	-63.25026104	266.3289981	-158.0556427	-171.5236164
Energy, from coal	Raw	MJ	-0.020098947	3.06276E-07	-0.018267905	-0.001831349
Energy, from coal, brown	Raw	MJ	-0.0035818	5.44951E-08	-0.003253892	-0.000327962
Energy, from gas, natural	Raw	MJ	-0.16120288	2.45279E-06	-0.146448293	-0.014757041
Energy, from hydro power	Raw	MJ	-224.5055774	945.0896827	-560.9315662	-608.6636939
Energy, from hydrogen	Raw	MJ	-0.003958014	6.0219E-08	-0.003595665	-0.000362409
Energy, from oil	Raw	MJ	-0.101787497	1.54887E-06	-0.092473297	-0.009315749
Energy, from peat	Raw	MJ	-9.81423E-06	1.49318E-10	-8.91576E-06	-8.98625E-07
Energy, from solar	Raw	MJ	-0.081673969	0.343738956	-0.20401424	-0.221398685
Energy, from sulfur	Raw	MJ	-0.00070131	1.067E-08	-0.000637106	-6.42143E-05
Energy, from uranium	Raw	MJ	-0.031060739	0.000766607	-0.027727493	-0.004099853
Energy, from wood	Raw	MJ	-5.24468E-06	7.9795E-11	-4.76454E-06	-4.80221E-07
Energy, gross calorific value, in biomass	Raw	MJ	-61.97036852	13.15380068	-69.1578101	-5.966359102
Energy, kinetic, flow, in wind	Raw	MJ	3.096809077	19.87100984	-8.14648262	-8.627718143
Energy, potential, stock, in barrage water	Raw	MJ	34.70630207	58.04397195	-12.71689356	-10.62077632
Energy, recovered	Raw	MJ	0.006981691	-1.06223E-07	0.00634253	0.000639268
Energy, solar	Raw	MJ	0.082641022	0.091295414	-0.005583893	-0.003070499
Energy, unspecified	Raw	MJ	-7.152955227	1.429277527	-5.299234614	-3.282998141
Feldspar, in ground	Raw	kg	-2.34316E-05	7.33381E-05	-7.3293E-05	-2.34767E-05
Ferromanganese	Raw		0.299586197	0.312859536	-0.006367983	-0.006905356
Fluorine, 4.5% in apatite, 1% in crude ore, in ground		kg ka	0.0001726	0.000179572	-4.3896E-06	
· · · · · · · · · · · · · · · · · · ·	Raw	kg				-2.58186E-06
Fluorine, 4.5% in apatite, 3% in crude ore, in ground	Raw	kg	9.0416E-05	9.63159E-05	-4.56214E-06	-1.33775E-06
Fluorine, in ground	Raw	kg	-4.89498E-14	2.06958E-13	-1.22725E-13	-1.33183E-13
Fluorspar, 92%, in ground	Raw	kg	0.006292272	0.006545597	-0.00016022	-9.31045E-05
Fluorspar, in ground	Raw	kg	-2.29215E-08	1.12546E-07	-1.0999E-07	-2.54781E-08
Gas, mine, off-gas, process, coal mining/kg	Raw	kg	-2.08705E-07	-4.39709E-17	-1.3044E-07	-7.82643E-08
Gas, mine, off-gas, process, coal mining/m3	Raw	m3	0.0518647	0.069187312	-0.010031347	-0.007291265
Gas, natural, 30.3 MJ per kg, in ground	Raw	kg	-0.228405333	-3.83044E-17	-0.142753333	-0.085652
Gas, natural, 35 MJ per m3, in ground	Raw	m3	1.305643836	26.11940299	-13.05990544	-11.75385371
Gas, natural, 35.9 MJ per m3, in ground	Raw	m3	21.97583005	155.6644725	-70.66651593	-63.02212649
Gas, natural, 51.3 MJ per kg, in ground	Raw	kg	-0.211948284	0.331909585	-0.33919959	-0.204658279
Gas, natural, feedstock, 35 MJ per m3, in ground	Raw	m3	-3.79417E-07	5.3157E-06	-4.55614E-06	-1.13897E-06
Gas, natural, in ground	Raw	m3	5.405484891	7.68451103	-1.280844222	-0.998181917
Gas, off-gas, 35.0 MJ per m3, oil production, in ground	Raw	m3	-0.00099978	0.000352303	-0.000911109	-0.000440974
Gas, off-gas, oil production, in ground	Raw	m3	-0.0019152	-3.21186E-19	-0.001197	-0.0007182
Gas, petroleum, 35 MJ per m3, in ground	Raw	m3	-1.56843E-05	-3.30445E-15	-9.8027E-06	-5.88162E-06
Granite, in ground	Raw	kg	0.001514854	0.001516867	-1.34062E-06	-6.72291E-07
Graphite, from technosphere	Raw	kg	0.000369783	0.000377233	-3.66776E-06	-3.78256E-06
Gravel, in ground	Raw	kg	8.293022346	18.66660649	-5.761727378	-4.61185677
Gypsum, in ground	Raw	kg	-0.143703732	-0.028022609	-0.055480196	-0.060200927
Iron ore, in ground	Raw	kg	17.62189386	19.53663565	-0.920847927	-0.993893868
Iron, 46% in ore, 25% in crude ore, in ground	Raw	kg	1.473279007	2.03683555	-0.317969312	-0.245587231
Iron, in ground	Raw	kg	-0.007240917	0.000894504	-0.005252767	-0.002882654
Kaolinite, 24% in crude ore, in ground	Raw	kg	0.000300813	0.000342816	-2.62624E-05	-1.57404E-05
Kieserite, 25% in crude ore, in ground	Raw		1.10625E-06	1.33579E-06	-1.56658E-07	-7.28842E-08
Land use II-III	Raw	kg m2a	-9.54356E-06	-2.01068E-15	-5.96472E-06	-3.57883E-06
Land use II-III, sea floor	Raw	m2a	-2.42838E-05	-5.11623E-15	-1.51774E-05	-9.10642E-06
Land use II-IV	Raw	m2a	-1.20632E-06	-2.54153E-16	-7.53948E-07	-4.52369E-07
Land use II-IV, sea floor	Raw	m2a	-2.50532E-06	-5.27833E-16	-1.56582E-06	-9.39494E-07
Land use III-IV	Raw	m2a	-2.44462E-06	-5.15044E-16	-1.52789E-06	-9.16731E-07
Land use IV-IV	Raw	m2a	-5.41942E-07	-1.14179E-16	-3.38714E-07	-2.03228E-07
Lead, 5%, in sulfide, Pb 2.97% and Zn 5.34% in crude ore, in ground	Raw	kg	0.718831344	0.719382836	-0.000403885	-0.000147607
Lead, in ground	Raw	kg	-1.30079E-05	0.000174135	-0.000149616	-3.75272E-05
Limestone, in ground	Raw	kg	9.959197815	14.11018563	-1.990876573	-2.16011124
Magnesite, 60% in crude ore, in ground	Raw	kg	-0.008124299	0.003877444	-0.006793506	-0.005208237
Magnesium, 0.13% in water	Raw	kg	-0.000898411	2.05708E-07	-0.000677815	-0.000220802

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Manganese, 35.7% in sedimentary deposit, 14.2% in crude ore, in ground	Raw	kg	-0.000181777	0.000597115	-0.000591679	-0.000187213
Manganese, in ground	Raw	kg	-5.35149E-06	6.45216E-07	-3.86892E-06	-2.12779E-06
Marl, in ground	Raw	kg	-0.019436037	0.00234624	-0.014053843	-0.007728434
Methane	Raw	kg	-0.005505937	0.000663546	-0.003980342	-0.002189141
Molybdenum, 0.010% in sulfide, Mo 8.2E-3% and Cu 1.83% in crude ore, in ground	Raw	kg	0.001417314	0.001445198	-1.78461E-05	-1.00381E-05
Molybdenum, 0.014% in sulfide, Mo 8.2E-3% and Cu 0.81% in crude ore, in ground	Raw	kg	0.000201686	0.000205654	-2.53953E-06	-1.42843E-06
Molybdenum, 0.022% in sulfide, Mo 8.2E-3% and Cu 0.36% in crude ore, in ground	Raw	kg	9.70566E-05	0.000208142	-8.54048E-05	-2.5681E-05
Molybdenum, 0.025% in sulfide, Mo 8.2E-3% and Cu 0.39% in crude ore, in ground	Raw	kg	0.000740047	0.000754607	-9.31827E-06	-5.24134E-06
Molybdenum, 0.11% in sulfide, Mo 4.1E-2% and Cu 0.36% in crude ore, in ground	Raw	kg	0.000195882	0.000420078	-0.000172366	-5.18301E-05
Molybdenum, in ground	Raw	kg	-6.99501E-12	8.4318E-13	-5.05696E-12	-2.78122E-12
Nickel, 1.13% in sulfide, Ni 0.76% and Cu 0.76% in crude ore, in ground	Raw	kg	0.037578814	0.037631164	-4.81477E-05	-4.20267E-06
Nickel, 1.98% in silicates, 1.04% in crude ore, in ground	Raw	kg	-0.53782789	0.028923447	-0.310462278	-0.256289059
Nickel, in ground	Raw	kg	-3.68404E-08	4.5825E-07	-3.95404E-07	-9.96864E-08
Nitrogen, in air	Raw	kg	-0.000169944	0.000153608	-0.000276082	-4.74692E-05
Occupation, arable	Raw	m2a	-0.000324467	0.00454584	-0.003896287	-0.00097402
Occupation, arable, non-irrigated	Raw	m2a	0.054215878	0.064645952	-0.009661898	-0.000768176
Occupation, construction site	Raw	m2a	-0.009253338	0.046089948	-0.026693236	-0.02865005
Occupation, dump site	Raw	m2a	0.257060234	0.289471301	-0.018641141	-0.013769926
Occupation, dump site, benthos	Raw	m2a	0.001222691	0.001912847	-0.000402772	-0.000287384
Occupation, forest	Raw	m2a	-3.74183E-08	5.24238E-07	-4.4933E-07	-1.12326E-07
Occupation, forest, intensive	Raw	m2a	0.038714649	0.04574272	-0.00406331	-0.002964761
Occupation, forest, intensive, normal	Raw	m2a	-16.14123853	1.982167242	-16.81160768	-1.311798093
Occupation, industrial area	Raw	m2a	0.133101638	0.554242143	-0.206392103	-0.214748402
Occupation, industrial area, benthos	Raw	m2a	9.8326E-06	1.6193E-05	-3.66968E-06	-2.69077E-06
Occupation, industrial area, built up	Raw	m2a	0.082745727	0.097349665	-0.009254704	-0.005349233
Occupation, industrial area, vegetation	Raw	m2a	-0.219888384	1.126634243	-0.652936428	-0.693586199
Occupation, mineral extraction site	Raw	m2a	0.046520853	0.090999184	-0.022382608	-0.022095723
Occupation, permanent crop, fruit, intensive	Raw	m2a	0.014058204	0.014157592	-6.39793E-05	-3.54096E-05
Occupation, shrub land, sclerophyllous	Raw	m2a	-0.000186622	0.00145586	-0.000914487	-0.000727995
Occupation, traffic area	Raw	m2a	109.3171193	231.1334101	-79.12669243	-42.68959842
Occupation, traffic area, rail embankment	Raw	m2a	0.007314792	0.008376858	-0.000739296	-0.00032277
Occupation, traffic area, rail network	Raw	m2a	0.008088471	0.009262871	-0.00081749	-0.000356909
Occupation, traffic area, road embankment	Raw	m2a	-0.158949448	0.021502784	-0.167288464	-0.013163768
Occupation, traffic area, road network	Raw	m2a	0.00125998	0.017048993	-0.009235617	-0.006553397
Occupation, urban, continuously built	Raw	m2a	-2.64283E-05	0.000370266	-0.000317359	-7.93355E-05
Occupation, urban, discontinuously built	Raw	m2a	4.88719E-05	5.77689E-05	-8.17805E-06	-7.19016E-07
Occupation, urban, green areas	Raw	m2a	-1.924561629	8.100428765	-4.80765909	-5.217331304
Occupation, water bodies, artificial	Raw	m2a	0.052429547	0.062215456	-0.006119228	-0.003666681
Occupation, water courses, artificial	Raw	m2a	-18.09335164	76.33598476	-45.28623775	-49.14309865
Oil, crude, 41 MJ per kg, in ground	Raw		-0.0506464	-8.49357E-18	-0.031654	-0.0189924
Oil, crude, 41.0 MJ per kg, in ground	Raw	kg ka	1.110725591	1.166914248	-0.026961244	-0.029227413
Oil, crude, 42.0 MJ per kg, in ground	Raw	kg ka	146.1731018	314.4369666	-108.4534181	-59.81044673
Oil, crude, 42.6 MJ per kg, in ground	Raw	kg ka	0.008259655	0.169776119	-0.085031279	-0.076485185
Oil, crude, 42.7 MJ per kg, in ground	Raw	kg ka	-0.356991711	0.109770119	-0.306860353	-0.173543836
		kg		0.123412478	-0.085032142	
Oil, crude, 42.8 MJ per kg, in ground	Raw	kg	0.093728566			-0.053747261
Oil, crude, 43.4 MJ per kg, in ground	Raw	kg	91.44645161	196.7108009	-67.84752709	-37.4168222
Oil, crude, in ground	Raw	kg	6.657666639	7.203435698	-0.377905221	-0.167863839
Olivine, in ground	Raw	kg	5.83644E-06	6.43346E-06	-4.62286E-07	-1.34736E-07
Oxygen, in air	Raw	kg	2.35187349	2.463676882	-0.054177594	-0.057625798
Palladium, in ground	Raw	kg	-7.9696E-13	9.20166E-14	-5.72863E-13	-3.16113E-13
Paper waste, feedstock	Raw	kg	-1.24292E-05	0.000174135	-0.000149253	-3.73112E-05
Pd, Pd 2.0E-4%, Pt 4.8E-4%, Rh 2.4E-5%, Ni 3.7E-2%, Cu 5.2E-2% in ore, in ground	Raw	kg	2.02859E-06	2.02939E-06	-6.21753E-10	-1.82943E-10
Pd, Pd 7.3E-4%, Pt 2.5E-4%, Rh 2.0E-5%, Ni 2.3E+0%, Cu 3.2E+0% in ore, in ground	Raw	kg	4.87529E-06	4.87722E-06	-1.49425E-09	-4.39665E-10
Peat, in ground	Raw	kg	0.003666884	0.004031145	-0.0002597	-0.000104561
Phosphorus pentoxide	Raw	kg	-4.56073E-09	8.97218E-13	-4.14352E-09	-4.18111E-10
Phosphorus, 18% in apatite, 12% in crude ore, in ground	Raw	kg	0.00034369	0.000391698	-3.62252E-05	-1.1783E-05

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Phosphorus, 18% in apatite, 4% in crude ore, in ground	Raw	kg	0.000690401	0.000718287	-1.75584E-05	-1.03274E-05
Platinum, in ground	Raw	kg	-1.52525E-12	1.79634E-13	-1.09924E-12	-6.05652E-13
Potassium chloride	Raw	kg	-4.79777E-05	7.29954E-10	-4.35854E-05	-4.393E-06
Pt, Pt 2.5E-4%, Pd 7.3E-4%, Rh 2.0E-5%, Ni 2.3E+0%, Cu 3.2E+0% in ore, in ground	Raw	kg	7.85269E-06	7.85272E-06	-1.8942E-11	-6.72252E-12
Pt, Pt 4.8E-4%, Pd 2.0E-4%, Rh 2.4E-5%, Ni 3.7E-2%, Cu 5.2E-2% in ore, in ground	Raw	kg	2.81508E-05	2.81508E-05	-6.79045E-11	-2.40993E-11
Refractories, from technosphere	Raw	kg	0.161148343	0.168260315	-0.003412014	-0.003699957
Rh, Rh 2.0E-5%, Pt 2.5E-4%, Pd 7.3E-4%, Ni 2.3E+0%, Cu 3.2E+0% in ore, in ground	Raw	kg	7.00591E-11	8.84338E-11	-1.41995E-11	-4.17513E-12
Rh, Rh 2.4E-5%, Pt 4.8E-4%, Pd 2.0E-4%, Ni 3.7E-2%, Cu 5.2E-2% in ore, in ground	Raw	kg	2.19434E-10	2.76986E-10	-4.44748E-11	-1.3077E-11
Rhenium, in crude ore, in ground	Raw	kg	3.28946E-11	8.26202E-11	-4.2424E-11	-7.30167E-12
Rhenium, in ground	Raw	kg	-4.70067E-13	5.24238E-14	-3.36386E-13	-1.86105E-13
Rhodium, in ground	Raw	kg	-6.85903E-13	7.84524E-14	-4.92432E-13	-2.71923E-13
Rutile, in ground	Raw	kg	5.50169E-09	5.67641E-09	-1.25547E-10	-4.91742E-11
Sand and clay, unspecified, in ground	Raw	kg	-3.42783E-08	4.80246E-07	-4.11624E-07	-1.029E-07
Sand, river, in ground	Raw	kg	-2.256897987	4.756096643	-3.363181884	-3.649812746
Sand, unspecified, in ground	Raw	kg	-0.000261616	0.005507321	-0.003117293	-0.002651644
Secondary glass	Raw	kg	-0.000537158	0.002271088	-0.001346744	-0.001461502
Shale, in ground	Raw	kg	3.83765E-05	4.10597E-05	-2.04794E-06	-6.35214E-07
Silicon, in ground	Raw	kg	-0.000535154	-8.97472E-20	-0.000334472	-0.000200683
Silver, 0.01% in crude ore, in ground	Raw	kg	3.4491E-08	3.81196E-08	-2.3452E-09	-1.28343E-09
Silver, in ground	Raw	kg	-1.78858E-07	2.15194E-08	-1.29271E-07	-7.11066E-08
Sodium chloride, in ground	Raw	kg	0.651948234	0.809082263	-0.093297503	-0.063836526
Sodium hydroxide	Raw		-1.40253E-05	0.000196498	-0.00016842	-4.21028E-05
Sodium sulphate, various forms, in ground	Raw	kg ka	0.001405763	0.000190498	-2.56389E-05	-1.26297E-05
·		kg	7.59481E-11	1.64135E-10	-6.56967E-11	-2.24904E-11
Stibnite, in ground	Raw	kg				
Sulfur dioxide, secondary	Raw	kg	-0.000136948	0.001903019	-0.001627732	-0.000412235
Sulfur, bonded	Raw	kg	-3.78313E-05	5.75582E-10	-3.43679E-05	-3.46396E-06
Sulfur, in ground	Raw	kg	0.001265785	0.001892506	-0.000496187	-0.000130534
Sylvite, 25 % in sylvinite, in ground	Raw	kg	0.010281009	0.01089794	-0.000457833	-0.000159097
Talc, in ground	Raw	kg	4.31877E-05	4.90255E-05	-3.36404E-06	-2.47373E-06
Tin ore, in ground	Raw	kg	-0.0005074	-8.50927E-20	-0.000317125	-0.000190275
Tin, 79% in cassiterite, 0.1% in crude ore, in ground	Raw	kg	4.03402E-05	5.0649E-05	-7.40115E-06	-2.90762E-06
Tin, in ground	Raw	kg	-9.91867E-08	1.19512E-08	-7.1702E-08	-3.94359E-08
TiO2, 45-60% in Ilmenite, in ground	Raw	kg	0.034436554	0.034622194	-0.000124144	-6.14959E-05
Transformation, from arable	Raw	m2	2.73037E-05	3.93578E-05	-7.57033E-06	-4.48378E-06
Transformation, from arable, non-irrigated	Raw	m2	0.100263557	0.119552619	-0.017868805	-0.001420256
Transformation, from arable, non-irrigated, fallow	Raw	m2	2.68701E-06	5.88032E-06	-1.99667E-06	-1.19664E-06
Transformation, from dump site, inert material landfill	Raw	m2	9.27284E-05	0.000148166	-3.26701E-05	-2.27674E-05
Transformation, from dump site, residual material landfill	Raw	m2	-0.000136452	0.000135636	-0.000149561	-0.000122527
Transformation, from dump site, sanitary landfill	Raw	m2	1.09778E-06	1.46555E-06	-2.92573E-07	-7.51939E-08
Transformation, from dump site, slag compartment	Raw	m2	5.51939E-06	5.68754E-06	-1.34869E-07	-3.32857E-08
Transformation, from forest	Raw	m2	0.003029043	0.004133027	-0.000692544	-0.000411441
Transformation, from forest, extensive	Raw	m2	-0.1356448	0.01667532	-0.14136253	-0.01095759
Transformation, from industrial area	Raw	m2	6.26025E-05	7.83205E-05	-9.22282E-06	-6.49521E-06
Transformation, from industrial area, benthos	Raw	m2	7.44721E-08	1.43082E-07	-3.76891E-08	-3.09203E-08
Transformation, from industrial area, built up	Raw	m2	2.46487E-07	2.56443E-07	-6.2687E-09	-3.6871E-09
Transformation, from industrial area, vegetation	Raw	m2	4.20479E-07	4.37462E-07	-1.06937E-08	-6.28976E-09
Transformation, from mineral extraction site	Raw	m2	0.000761592	0.002122505	-0.000683186	-0.000677728
·			0.000761592	0.002122303	-0.000356176	-0.000077728
Transformation, from pasture and meadow	Raw	m2				
Transformation, from pasture and meadow, intensive	Raw	m2	8.07978E-05	9.6342E-05	-1.43996E-05	-1.14452E-06
Transformation, from sea and ocean	Raw	m2	0.001225078	0.001915948	-0.00040326	-0.00028761
Transformation, from shrub land, sclerophyllous	Raw	m2	9.0119E-05	0.000521217	-0.000238603	-0.000192495
Transformation, from unknown	Raw	m2	-0.360151239	1.58937758	-0.935491093	-1.014037725
Transformation, to arable	Raw	m2	0.000528206	0.000696006	-9.65838E-05	-7.12162E-05
Transformation, to arable, non-irrigated	Raw	m2	0.100344284	0.119648878	-0.017883192	-0.001421401
Transformation, to arable, non-irrigated, fallow	Raw	m2	6.92966E-06	1.07808E-05	-2.40814E-06	-1.44299E-06
Transformation, to dump site	Raw	m2	0.002018552	0.002206421	-0.000109605	-7.82638E-05

Transformation, to dump site, benthos	Raw	m2	0.001222691	0.001912847	-0.000402772	-0.000287384
Transformation, to dump site, inert material landfill	Raw	m2	9.27284E-05	0.000148166	-3.26701E-05	-2.27674E-05
Transformation, to dump site, residual material landfill	Raw	m2	-0.000136678	0.000135639	-0.000149675	-0.000122641
Transformation, to dump site, sanitary landfill	Raw	m2	1.09778E-06	1.46555E-06	-2.92573E-07	-7.51939E-08
Transformation, to dump site, slag compartment	Raw	m2	5.51939E-06	5.68754E-06	-1.34869E-07	-3.32857E-08
Transformation, to forest	Raw	m2	0.000506436	0.000990801	-0.00027889	-0.000205475
Transformation, to forest, intensive	Raw	m2	0.000257838	0.000304642	-2.70602E-05	-1.97431E-05
Transformation, to forest, intensive, normal	Raw	m2	-0.1348002	0.015971736	-0.139943363	-0.010828573
Transformation, to heterogeneous, agricultural	Raw	m2	0.000143364	0.000195995	-3.27664E-05	-1.98646E-05
Transformation, to industrial area	Raw	m2	0.001528065	0.015435463	-0.006803436	-0.007103961
Transformation, to industrial area, benthos	Raw	m2	2.38726E-06	3.1012E-06	-4.87871E-07	-2.2607E-07
Transformation, to industrial area, built up	Raw	m2	0.001649921	0.001942398	-0.000184824	-0.000107653
Transformation, to industrial area, vegetation	Raw	m2	-0.007718658	0.036876104	-0.021504065	-0.023090698
Transformation, to mineral extraction site	Raw	m2	0.006501158	0.009635583	-0.001885512	-0.001248913
Transformation, to pasture and meadow	Raw	m2	1.48952E-05	2.53426E-05	-5.8203E-06	-4.62706E-06
Transformation, to permanent crop, fruit, intensive	Raw	m2	0.000229455	0.000231082	-1.04802E-06	-5.79422E-07
Transformation, to sea and ocean	Raw	m2	7.44721E-08	1.43082E-07	-3.76891E-08	-3.09203E-08
Transformation, to shrub land, sclerophyllous	Raw	m2	-0.000251105	0.001217555	-0.000729653	-0.000739008
Transformation, to traffic area, rail embankment	Raw	m2	1.7021E-05	1.94923E-05	-1.72028E-06	-7.51062E-07
Transformation, to traffic area, rail network	Raw	m2	1.8709E-05	2.14254E-05	-1.89089E-06	-8.25546E-07
Transformation, to traffic area, road embankment	Raw	m2	-0.001329271	0.000169039	-0.0013903	-0.00010801
Transformation, to traffic area, road network	Raw	m2	3.51097E-05	0.000103033	-0.00013303	-9.20352E-05
Transformation, to unknown	Raw	m2	0.000109305	0.000240900	-8.08202E-06	-4.88325E-06
Transformation, to unknown Transformation, to urban, continuously built	Raw	m2	-1.33188E-05	0.00012227	-0.002021-00	-3.99819E-05
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Transformation, to urban, discontinuously built	Raw	m2	9.73496E-07	1.15072E-06	-1.62902E-07	-1.43223E-08
Transformation, to water bodies, artificial	Raw	m2	-0.361427346	1.527063783	-0.905710355	-0.982780773
Transformation, to water courses, artificial	Raw	m2	0.000271686	0.000480408	-0.000113683	-9.5039E-05
Ulexite, in ground	Raw	kg	-3.72945E-05	3.32719E-06	-2.53928E-05	-1.52289E-05
Uranium ore, 1.11 GJ per kg, in ground	Raw	kg	-3.3755E-06	4.72914E-05	-4.05339E-05	-1.01329E-05
Uranium, 451 GJ per kg, in ground	Raw	kg	-2.83113E-06	4.56509E-05	-2.62019E-05	-2.22801E-05
Uranium, 560 GJ per kg, in ground	Raw	kg	-2.21159E-09	-4.65949E-19	-1.38224E-09	-8.29346E-10
Uranium, in ground	Raw	kg	0.000475296	0.000522606	-3.06019E-05	-1.67086E-05
Vermiculite, in ground	Raw	kg	1.4314E-05	1.45153E-05	-1.33232E-07	-6.81276E-08
Volume occupied, final repository for low-active radioactive waste	Raw	m3	9.13839E-07	1.0101E-06	-6.20922E-08	-3.41683E-08
Volume occupied, final repository for radioactive waste	Raw	m3	2.29997E-07	2.54156E-07	-1.55678E-08	-8.59173E-09
Volume occupied, reservoir	Raw	m3y	0.453661724	0.608670758	-0.087890359	-0.067118675
Volume occupied, underground deposit	Raw	m3	2.1361E-05	2.33468E-05	-1.36143E-06	-6.24403E-07
Water, barrage	Raw	kg	-0.046838333	0.656214	-0.562447833	-0.1406045
Water, cooling, river	Raw	kg	-43.728426	184.5590266	-109.4793135	-118.8081391
Water, cooling, salt, ocean	Raw	kg	-0.207096647	3.15086E-06	-0.188137321	-0.018962477
Water, cooling, surface	Raw	kg	-0.003697978	5.62627E-08	-0.003359435	-0.0003386
Water, cooling, unspecified natural origin/kg	Raw	kg	-34.41104025	-7.857934432	-12.84790289	-13.70520293
Water, cooling, unspecified natural origin/m3	Raw	m3	-1.41488884	1.817193214	-1.634130068	-1.597951985
Water, cooling, well, in ground	Raw	kg	-1025.955709	4339.283212	-2572.994929	-2792.243992
Water, lake	Raw	m3	0.015024793	0.015235754	-0.000139546	-7.14141E-05
Water, process, drinking	Raw	kg	-0.026908408	4.09397E-07	-0.024444992	-0.002463826
Water, process, river	Raw	kg	-56.69734791	250.2145436	-147.1850314	-159.7268601
Water, process, salt, ocean	Raw	kg	-0.000827968	1.25971E-08	-0.000752169	-7.58116E-05
Water, process, surface	Raw	kg	-0.003243326	4.93454E-08	-0.002946405	-0.00029697
Water, process, unspecified natural origin/kg	Raw	kg	119.945709	134.4043411	-6.942828104	-7.515804036
Water, process, unspecified natural origin/m3	Raw	m3	0.075348641	0.078687006	-0.001601605	-0.00173676
Water, process, well, in ground	Raw	kg	-0.001345782	2.04753E-08	-0.001222578	-0.000123224
Water, river	Raw	m3	0.22365383	0.270198267	-0.02654579	-0.019998648
Water, salt, ocean	Raw	m3	0.030648364	0.035303221	-0.002852283	-0.001802575
Water, salt, sole	Raw	m3	0.001690198	0.002055824	-0.000252454	-0.000113173
Water, turbine use, unspecified natural origin	Raw	m3	214.0927019	380.776983	-90.60165575	-76.08262531
rate, tale and anopolina natural origin	IXAV	1110	_11.0021010	000.170000	00.00100070	7 0.00202001

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Water, unspecified natural origin /kg	Raw	kg	-25.40616431	36.97855223	-38.01864049	-24.36607605
Water, unspecified natural origin/kg	Raw	kg m2	-56.74317768	-3.23594E-11	-35.46448605	-21.27869163
Water, unspecified natural origin/m3	Raw	m3	0.053910185 0.085275162	0.08097998	-0.01769539	-0.009374405
Water, well, in ground	Raw	m3		0.09117549	-0.003654944	-0.002245385
Wood, dry matter	Raw	kg	-7.30568E-07	-1.5392E-16	-4.56605E-07	-2.73963E-07
Wood, hard, standing	Raw	m3	8.67813E-05	0.000181375	-5.10121E-05	-4.35818E-05
Wood, soft, standing	Raw	m3	-0.006953882	0.001080123	-0.007447392	-0.000586612
Wood, unspecified, standing/kg	Raw	kg	-0.008015072	0.005867553	-0.008405975	-0.00547665
Wood, unspecified, standing/m3	Raw	m3	4.36051E-07	4.8155E-07	-3.28826E-08	-1.26161E-08
Zeolite, in ground	Raw	kg	-3.35771E-06	4.06926E-07	-2.42919E-06	-1.33544E-06
Zinc 9%, in sulfide, Zn 5.34% and Pb 2.97% in crude ore, in ground	Raw	kg	0.217298542	0.219521127	-0.001681779	-0.000540806
Zinc, in ground	Raw	kg	-2.92013E-07	3.52303E-08	-2.11172E-07	-1.16072E-07
2-Propanol	Air	kg	-2.37073E-05	-3.9758E-21	-1.48171E-05	-8.89025E-06
Acenaphthene	Air	kg	2.58546E-11	6.24685E-11	-1.91198E-11	-1.74941E-11
Acetaldehyde	Air	kg	7.9028E-06	1.06071E-05	-2.01309E-06	-6.91222E-07
Acetic acid	Air	kg	7.98608E-05	9.93981E-05	-1.18224E-05	-7.7148E-06
Acetone	Air	kg	-0.000392931	1.38185E-05	-0.000254274	-0.000152475
Acrolein	Air	kg	4.95386E-09	6.23574E-09	-8.1481E-10	-4.67067E-10
Acrylonitrile	Air	kg	-2.04863E-05	2.62119E-06	-1.39698E-05	-9.13766E-06
Actinides, radioactive, unspecified	Air	Bq	9.78036E-06	1.08047E-05	-6.58973E-07	-3.65414E-07
Aerosols, radioactive, unspecified	Air	Bq	0.188632009	0.208354532	-0.012680228	-0.007042296
Alcohols, unspecified	Air	kg	-0.00166433	-2.79114E-19	-0.001040207	-0.000624124
Aldehydes, unspecified	Air	kg	6.5283E-07	1.85366E-06	-9.49389E-07	-2.51437E-07
Aluminum	Air	kg	0.004420682	0.005139883	-0.000413543	-0.000305659
Americium-241	Air	Bq	-1.70261E-08	-3.58715E-18	-1.06413E-08	-6.3848E-09
Ammonia	Air	kg	0.003721514	0.01051768	-0.003646208	-0.003149957
Ammonium carbonate	Air	kg	8.86147E-09	1.57556E-08	-6.19518E-09	-6.98971E-10
Antimony	Air	kg	6.57394E-06	6.73277E-06	-9.90732E-08	-5.97634E-08
Antimony-124	Air	Bq	9.46344E-07	1.07458E-06	-8.96243E-08	-3.86154E-08
Antimony-125	Air	Bq	9.87848E-06	1.12142E-05	-9.33687E-07	-4.02014E-07
Argon-41	Air	Bq	118.8088404	130.9590501	-7.77047181	-4.379737923
Arsenic	Air	kg	2.26416E-05	0.000128018	-5.14076E-05	-5.39685E-05
Barium	Air	kg	8.13627E-07	3.70564E-06	-1.67114E-06	-1.22087E-06
Barium-140	Air	Bq	0.000642579	0.000729466	-6.07359E-05	-2.61509E-05
Benzaldehde	Air	kg	-2.44367E-11	8.57844E-12	-2.22429E-11	-1.07722E-11
Benzaldehyde	Air	kg	4.06584E-10	7.7134E-10	-2.29542E-10	-1.35214E-10
Benzene	Air	kg	0.0012426	0.00240215	-0.000703314	-0.000456236
Benzene, ethyl-	Air	kg	0.00012428	0.00062038	-0.000700014	-0.00011845
Benzene, hexachloro-	Air		-5.25063E-09	3.00118E-09	-4.67511E-09	-3.5767E-09
Benzene, pentachloro-	Air	kg kg	1.24995E-09	1.36855E-09	-8.06539E-11	-3.79479E-11
Benzo(a)pyrene	Air	kg	7.19668E-07	8.5879E-07	-9.08805E-08	-4.82411E-08
Beryllium	Air	kg	-1.36227E-05	5.87227E-05	-3.47745E-05	-3.7571E-05
Biphenyl	Air		-6.5897E-10	2.74689E-09	-1.63333E-09	-1.77252E-09
Bismuth	Air	kg ka	9.57558E-10	9.57558E-10	-2.06656E-25	-2.93422E-26
Boron	Air	kg ka	-0.003015642	0.014188261	-0.008256161	-0.008947742
Bromine	Air	kg ka	1.43713E-05		-3.19719E-06	-1.38261E-06
		kg		1.89511E-05 1.42782E-05		
Butadiene	Air	kg	6.64548E-06		-4.91992E-06	-2.71279E-06
Butane	Air	kg	0.000179705	0.000310106	-7.76065E-05	-5.2795E-05
Butene	Air	kg	2.38234E-06	3.13302E-06	-5.11849E-07	-2.38829E-07
Cadmium	Air	kg	1.56699E-05	3.18257E-05	-7.99546E-06	-8.16033E-06
Calcium	Air	kg	-5.66758E-05	6.19153E-05	-9.99659E-05	-1.86251E-05
Caprolactam Carlo and Add	Air	kg	-6.09218E-09	2.5395E-08	-1.51002E-08	-1.6387E-08
Carbon-14	Air	Bq	787.6806028	870.7605841	-53.62689323	-29.45308812
Carbon dioxide	Air	kg	839.7330398	1831.58687	-631.3499513	-360.503879
Carbon dioxide, biogenic	Air	kg	-6.872288496	25.24951453	-16.25694296	-15.86486006
Carbon dioxide, fossil	Air	kg	-658.7798379	3015.596845	-1764.349433	-1910.02725

Carbon disulfide	Air	kg	0.002499844	0.002526055	-1.78209E-05	-8.3904E-06
Carbon monoxide	Air	kg	37.59590271	79.71122797	-27.14140715	-14.97391812
Carbon monoxide, biogenic	Air	kg	0.000241839	0.003673371	-0.002260964	-0.001170568
Carbon monoxide, fossil	Air	kg	0.05000836	0.086970044	-0.024283529	-0.012678155
Cerium-141	Air	Bq	0.000155776	0.000176839	-1.47233E-05	-6.33929E-06
Cerium-144	Air	Bq	-1.81073E-07	-3.81494E-17	-1.13171E-07	-6.79025E-08
Cesium-134	Air	Bq	6.81362E-06	8.46945E-06	-1.10957E-06	-5.46264E-07
Cesium-137	Air	Bq	0.000131005	0.000150136	-1.32805E-05	-5.85031E-06
Chlorinated fluorocarbons, hard	Air	kg	-2.97235E-09	1.02281E-08	-1.01681E-08	-3.03241E-09
Chlorinated fluorocarbons, soft	Air	kg	-5.66858E-08	8.62443E-13	-5.14963E-08	-5.19034E-09
Chlorine	Air	kg	-3.40288E-06	7.68884E-05	-4.1469E-05	-3.88223E-05
Chloroform	Air	kg	-9.14325E-07	2.39843E-08	-4.69212E-07	-4.69098E-07
Chromium	Air	kg	-0.000804664	0.000222899	-0.000554722	-0.000472841
Chromium-51	Air	Bq	9.97892E-06	1.13318E-05	-9.4547E-07	-4.07424E-07
Chromium VI	Air	kg	-2.61081E-05	3.00396E-05	-2.83872E-05	-2.77605E-05
Cobalt	Air		1.78579E-05	7.30126E-05	-2.72112E-05	-2.79436E-05
Cobalt-57	Air	kg Ba	-1.56919E-12	-3.30605E-22	-9.80744E-13	-5.88446E-13
		Bq Ba				
Cobalt-58	Air	Bq B~	1.38746E-05	1.578E-05	-1.33003E-06	-5.7541E-07
Cobalt-60	Air	Bq	0.00012276	0.000139402	-1.16304E-05	-5.01171E-06
Copper	Air	kg	4.70799E-05	0.000440978	-0.000192405	-0.000201493
Cumene	Air	kg	9.51402E-05	0.000197	-6.43695E-05	-3.74901E-05
Curium-242	Air	Bq	-8.98474E-14	-1.89295E-23	-5.61547E-14	-3.36928E-14
Curium-244	Air	Bq	-8.15688E-13	-1.71853E-22	-5.09805E-13	-3.05883E-13
Curium alpha	Air	Bq	-2.70256E-08	-5.69389E-18	-1.6891E-08	-1.01346E-08
Cyanide	Air	kg	3.21608E-05	0.000897954	-0.000416026	-0.000449767
Cyclohexane	Air	kg	0.000449586	0.000966203	-0.000333003	-0.000183615
Dinitrogen monoxide	Air	kg	0.206512345	0.483995513	-0.17346273	-0.104020438
Dioxins, measured as 2,3,7,8-tetrachlorodibenzo-p-dioxin	Air	kg	1.85274E-11	3.27348E-11	-8.24495E-12	-5.96251E-12
Ethane	Air	kg	0.00035604	0.000970918	-0.00034522	-0.000269658
Ethane, 1,1,1,2-tetrafluoro-, HFC-134a	Air	kg	2.84621E-06	4.53982E-06	-9.92001E-07	-7.01605E-07
Ethane, 1,2-dichloro-	Air	kg	2.58229E-05	2.84446E-05	-2.35146E-06	-2.70254E-07
Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-, CFC-114	Air	kg	1.82455E-07	2.01884E-07	-1.25629E-08	-6.86615E-09
Ethane, dichloro-	Air	kg	-1.9691E-11	-4.1486E-21	-1.23069E-11	-7.38412E-12
Ethane, hexafluoro-, HFC-116	Air	kg	1.13548E-05	1.18799E-05	-3.19486E-07	-2.05574E-07
Ethanol	Air	kg	3.07804E-06	2.04518E-05	-1.0962E-05	-6.41177E-06
Ethene	Air	kg	-1.28885E-05	7.80573E-05	-5.0042E-05	-4.09039E-05
Ethene, chloro-	Air	kg	6.05342E-05	6.14219E-05	-7.39791E-07	-1.47895E-07
Ethene, tetrachloro-	Air		3.22501E-09	7.41868E-09	-2.01118E-09	-2.18249E-09
Ethylene diamine	Air	kg ka	3.14268E-11	3.66436E-11	-3.43887E-12	-1.77793E-12
Ethylene oxide	Air	kg ka	1.63596E-06	1.63884E-06	-1.78929E-09	-1.09364E-09
·	Air	kg ka	-5.41006E-06	3.0675E-06	-4.6815E-06	
Ethyne		kg				-3.79605E-06
Fluoride	Air	kg	-0.012618289	0.062161672	-0.035997614	-0.038782347
Fluorine	Air	kg	7.08342E-06	1.13666E-05	-2.63946E-06	-1.64372E-06
Fluosilicic acid	Air	kg	9.28433E-07	1.22498E-06	-2.19085E-07	-7.74583E-08
Formaldehyde	Air	kg	-0.000129193	0.000110762	-0.000204274	-3.56802E-05
Formaldehyde (methyl aldehyde)	Air	kg	0.00045218	0.000971726	-0.00033489	-0.000184656
Heat, waste	Air	MJ	759.6275462	1044.216933	-179.2303932	-105.3589936
Heavy metals, unspecified	Air	kg	1.08101E-11	1.81289E-27	6.75633E-12	4.0538E-12
Helium	Air	kg	6.50833E-06	8.00984E-06	-1.00507E-06	-4.96441E-07
Heptane	Air	kg	2.38202E-05	3.13208E-05	-5.11338E-06	-2.38714E-06
Hexane	Air	kg	0.002896439	0.00663071	-0.00231398	-0.001420291
Hydrocarbons, aliphatic, alkanes, cyclic	Air	kg	-5.60188E-08	4.43966E-08	-8.2263E-08	-1.81524E-08
Hydrocarbons, aliphatic, alkanes, unspecified	Air	kg	0.000621649	0.000752807	-8.18309E-05	-4.93278E-05
Hydrocarbons, aliphatic, alkenes, unspecified	Air	kg	-2.61307E-06	3.15643E-07	-1.88963E-06	-1.03908E-06
Hydrocarbons, aliphatic, unsaturated	Air	kg	-8.54183E-06	5.18983E-05	-5.17911E-05	-8.64906E-06
Hydrocarbons, aromatic	Air	kg	0.000341942	0.000594734	-0.000139402	-0.00011339
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Hydrocarbons, chlorinated	Air	ka	3.60734E-06	6.46664E-06	-2.18468E-06	-6.74621E-07
Hydrocarbons, halogenated	Air	kg ka	-5.75667E-14	8.0652E-13	-6.91277E-13	-1.7281E-13
Hydrocarbons, sulfur	Air	kg kg	1.07021E-10	1.07021E-10	-2.30968E-26	-3.27942E-27
Hydrocarbons, unspecified	Air	kg	0.073216065	0.187433909	-0.072003069	-0.042214776
Hydrogen	Air	kg	0.000940244	0.001022904	-5.66483E-05	-2.60113E-05
Hydrogen-3, Tritium	Air	Bq	4540.155579	5015.315558	-305.7381053	-169.4218738
Hydrogen chloride	Air	kg	-0.175273483	0.756615599	-0.447089694	-0.484799389
Hydrogen cyanide	Air	kg	-6.95357E-28	1.05795E-32	-6.31699E-28	-6.36693E-29
Hydrogen fluoride	Air	kg	0.000465882	0.000678434	-0.000124752	-8.78003E-05
Hydrogen sulfide	Air	kg	0.000202997	0.000362193	-9.07694E-05	-6.8427E-05
lodine	Air	kg	8.49927E-06	1.0223E-05	-1.09161E-06	-6.32103E-07
lodine-129	Air	Bq	0.79780743	0.881353828	-0.053780632	-0.029765766
lodine-131	Air	Bq	47.04466528	51.85085447	-3.072742931	-1.733446265
lodine-133	Air	Bq	0.000768026	0.000872214	-7.28076E-05	-3.13802E-05
lodine-135	Air	Bq	-4.52981E-07	-9.54363E-17	-2.83113E-07	-1.69868E-07
Iron	Air	kg	-7.18561E-05	3.26663E-05	-5.95295E-05	-4.49929E-05
Iron-59	Air	Bq	-3.55521E-11	-7.49029E-21	-2.22201E-11	-1.3332E-11
Isocyanic acid	Air	kg	-0.000155234	3.67953E-07	-0.000145218	-1.03842E-05
Krypton-85	Air	Bq	288.0450572	409.8631972	-76.69292666	-45.12521337
Krypton-85m	Air	Bq	15.21982955	17.0802248	-1.263994698	-0.596400548
Krypton-87	Air	Bq	6.585091619	7.325615678	-0.489980541	-0.250543519
Krypton-88	Air	Bq Bq	6.257259308	6.990533109	-0.490645941	-0.24262786
Krypton-89	Air	Bq	1.45232542	1.638966655	-0.128663186	-0.057978049
Lanthanum	Air	kg	-1.45218E-08	1.75601E-09	-1.05029E-08	-5.77492E-09
Lanthanum-140	Air	Bq	5.49167E-05	6.23446E-05	-5.19208E-06	-2.23575E-06
Lead	Air	kg	0.000338075	0.0005475	-0.000105235	-0.000104191
Lead-210	Air	Bq	2.865737214	3.965482718	-0.638821184	-0.46092432
Lithium	Air	kg	6.35556E-11	6.35556E-11	-1.37163E-26	-1.94752E-27
m-Xylene	Air	kg	-1.40763E-06	4.49419E-07	-1.71858E-06	-1.38467E-07
Magnesium	Air	kg	-3.37391E-05	4.93122E-05	-4.91439E-05	-3.39073E-05
Magnesium oxide	Air	kg	1.31181E-06	1.36234E-06	-2.4233E-08	-2.62981E-08
Manganese	Air	kg	-8.0555E-05	0.000500804	-0.00028043	-0.000300928
Manganese-54	Air	Bq	5.11103E-06	5.80314E-06	-4.83737E-07	-2.08377E-07
Mercaptans, unspecified	Air	kg	-1.68869E-10	2.56925E-15	-1.53409E-10	-1.54622E-11
Mercury	Air	kg	-1.86791E-06	2.84237E-05	-1.48439E-05	-1.54478E-05
Metals, unspecified	Air	kg	-2.52334E-06	0.000102085	-5.5838E-05	-4.87708E-05
Methacrylic acid, methyl ester	Air	kg	1.4469E-09	3.3514E-09	-9.13346E-10	-9.91146E-10
Methane	Air	kg	-0.021872249	3.665724412	-1.868855738	-1.818740922
Methane, biogenic	Air	kg	-0.015371268	0.065481875	-0.038798983	-0.042054161
Methane, bromochlorodifluoro-, Halon 1211	Air	kg	1.16621E-07	2.2672E-07	-6.04529E-08	-4.96459E-08
Methane, bromotrifluoro-, Halon 1301	Air	kg	9.1799E-08	1.63845E-07	-4.25989E-08	-2.94473E-08
Methane, chlorodifluoro-, HCFC-22	Air	kg	-2.49229E-06	1.08739E-06	-1.81233E-06	-1.76734E-06
Methane, chlorotrifluoro-, CFC-13	Air	kg	-4.06192E-09	-2.06215E-23	-2.5387E-09	-1.52322E-09
Methane, dichloro-, HCC-30	Air	kg	-4.02109E-07	8.02834E-07	-8.86324E-07	-3.1862E-07
Methane, dichlorodifluoro-, CFC-12	Air	kg	-1.49487E-06	1.82514E-07	-1.00644E-06	-6.70939E-07
Methane, dichlorofluoro-, HCFC-21	Air	kg	-6.80041E-10	4.2108E-14	-3.45491E-10	-3.34592E-10
Methane, fossil	Air	kg	0.070559277	0.093533515	-0.013266407	-0.009707831
Methane, monochloro-, R-40	Air	kg	2.1211E-13	3.58735E-13	-9.7287E-14	-4.93379E-14
Methane, tetrachloro-, CFC-10	Air	kg	-8.39295E-08	9.26553E-08	-8.88577E-08	-8.77271E-08
Methane, tetrafluoro-, FC-14	Air	kg	9.96378E-05	0.000117748	-1.12029E-05	-6.90748E-06
Methane, trichlorofluoro-, CFC-11	Air	kg	-1.51878E-06	1.93875E-07	-1.03534E-06	-6.77313E-07
Methane, trifluoro-, HFC-23	Air	kg	-2.02507E-07	1.3398E-11	-1.0126E-07	-1.0126E-07
Methanol	Air	kg	1.72927E-05	5.22635E-05	-3.1213E-05	-3.75782E-06
Methyl ethyl ketone	Air	kg	3.1151E-08	6.97959E-08	-1.85331E-08	-2.01118E-08
Methyl mercaptan	Air	kg	5.36045E-11	5.36045E-11	-1.15687E-26	-1.64259E-27
Molybdenum	Air	kg	5.02726E-07	7.10742E-07	-1.29672E-07	-7.83436E-08
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Manaathanalamina	Λ:	l.a.	0.007045.07	0.470445.07	E 22020E 00	2.470045.00
Monoethanolamine	Air	kg	8.32761E-07	9.17841E-07	-5.32938E-08	-3.17861E-08
Naphthalene	Air	kg	3.08333E-08	3.62037E-08	-4.01908E-09	-1.35124E-09
Neptunium-237	Air	Bq	-8.91845E-13	-1.87898E-22	-5.57403E-13	-3.34442E-13
Nickel	Air	kg	0.000125476	0.000390094	-0.000140677	-0.000123942
Niobium-95	Air	Bq	6.0667E-07	6.88884E-07	-5.74575E-08	-2.47564E-08
Nitrate	Air	kg	2.04532E-07	2.27143E-07	-1.30472E-08	-9.56392E-09
Nitric oxide	Air	kg	-6.76048E-06	2.85562E-06	-6.48488E-06	-3.13121E-06
Nitrogen	Air	kg	-8.52392E-08	-1.79586E-17	-5.32745E-08	-3.19647E-08
Nitrogen dioxide	Air	kg	-0.000821666	4.1075E-05	-0.00053653	-0.000326211
Nitrogen oxides	Air	kg	2.075009193	15.91810338	-7.347612765	-6.495481419
NMVOC, non-methane volatile organic compounds, unspecified origin	Air	kg	3.05376502	6.57517049	-2.250445822	-1.270959649
Noble gases, radioactive, unspecified	Air	Bq	7666364.033	8469136.733	-516763.0908	-286009.6091
o-Xylene	Air	kg	-6.17939E-09	5.64123E-08	-3.00333E-08	-3.25584E-08
Organic substances, unspecified	Air	kg	-1.48084E-06	1.94665E-05	-1.67679E-05	-4.17937E-06
Ozone	Air	kg	0.000241407	0.000269925	-1.80054E-05	-1.0512E-05
PAH, polycyclic aromatic hydrocarbons	Air	kg	0.000180737	0.000248468	-3.90319E-05	-2.86998E-05
Paraffins	Air	kg	1.84911E-10	2.03482E-10	-1.15787E-11	-6.99204E-12
Particulates	Air	kg	0.997085655	1.225468323	-0.140419758	-0.08796291
Particulates, < 10 um	Air	kg	-0.170478941	0.808966055	-0.471545664	-0.507899332
Particulates, < 10 um (mobile)	Air	kg	-1.09179E-08	-2.30024E-18	-6.8237E-09	-4.09422E-09
Particulates, < 10 um (stationary)	Air	kg	-4.5949E-07	-9.68076E-17	-2.87181E-07	-1.72309E-07
Particulates, < 2.5 um	Air	kg	0.008593579	0.023424929	-0.008938368	-0.005892982
Particulates, > 10 um	Air	kg	0.027843774	0.04440474	-0.010079654	-0.006481312
Particulates, > 10 um (process)	Air	kg	-2.53566E-07	-5.34225E-17	-1.58478E-07	-9.50871E-08
Particulates, > 2.5 um, and < 10um	Air	kg	0.015122724	0.026643075	-0.006777053	-0.004743298
Particulates, SPM	Air	kg	-1.03458E-05	7.22202E-05	-6.51451E-05	-1.7421E-05
Pentane	Air	kg	0.000357826	0.00051425	-9.53973E-05	-6.1027E-05
Pesticides, unspecified	Air	kg	4.42167E-09	4.42167E-09	-9.54263E-25	-1.35492E-25
Phenol	Air	kg	1.51717E-05	2.16095E-05	-4.13122E-06	-2.30659E-06
Phenol, pentachloro-	Air	kg	2.82895E-07	3.12043E-07	-1.86472E-08	-1.05005E-08
Phosphate	Air		4.402E-09	6.3317E-08	-4.71325E-08	-1.17825E-08
Phosphorous	Air	kg ka	-1.52749E-07	5.38902E-08	-4.71323E-08 -1.39254E-07	-6.73853E-08
·		kg				
Phosphorus total	Air	kg	-4.34265E-06	1.64105E-06	-5.05923E-06	-9.24465E-07
Phosphorus, total	Air	kg	-3.19319E-11	-6.72758E-21	-1.99574E-11	-1.19745E-11
Platinum Plate arium 220	Air	kg	3.66577E-13	5.71511E-13	-1.33692E-13	-7.12429E-14
Plutonium-238	Air	Bq	1.08832E-07	1.20231E-07	-7.3374E-09	-4.06104E-09
Plutonium-241	Air	Bq	-1.48641E-06	-3.13164E-16	-9.29005E-07	-5.57403E-07
Plutonium-alpha	Air	Bq	1.95437E-07	2.75614E-07	-5.05996E-08	-2.95771E-08
Polonium-210	Air	Bq	4.967132589	6.949039082	-1.149416826	-0.832489667
Polychlorinated biphenyls	Air	kg	8.22987E-10	1.32353E-08	-7.01946E-09	-5.39282E-09
Polychlorinated dioxins and furans	Air	kg	-1.10302E-10	6.26228E-10	-3.53217E-10	-3.83314E-10
Potassium	Air	kg	-0.000296795	9.47033E-05	-0.000351661	-3.98375E-05
Potassium-40	Air	Bq	0.531370551	0.819473824	-0.165414614	-0.122688659
Promethium-147	Air	Bq	-4.59435E-07	-9.67961E-17	-2.87147E-07	-1.72288E-07
Propanal	Air	kg	4.53405E-10	7.7134E-10	-2.00279E-10	-1.17656E-10
Propane	Air	kg	0.000122198	0.000457724	-0.000197203	-0.000138323
Propene	Air	kg	-0.000130996	3.67465E-05	-0.000101089	-6.66531E-05
Propionic acid	Air	kg	1.3327E-06	2.92616E-06	-9.1343E-07	-6.80031E-07
Propylene oxide	Air	kg	4.72759E-08	7.74042E-08	-2.24734E-08	-7.65488E-09
Protactinium-234	Air	Bq	0.108118789	0.119514582	-0.007351545	-0.004044247
Radioactive species, other beta emitters	Air	Bq	1.1776557	2.539285901	-1.014313732	-0.347316469
Radioactive species, unspecified	Air	Bq	191918.1891	3973633.648	-2006716.157	-1774999.301
Radium-226	Air	Bq	4.22246441	4.872822259	-0.401348465	-0.249009384
Radium-228	Air	Bq	-0.533350359	0.528807786	-0.587575814	-0.47458233
Radon-220	Air	Bq	-0.012328036	0.003712643	-0.008844783	-0.007195896
Radon-222	Air	Bq	14349691.7	15862237.65	-975757.0357	-536788.9113
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Ruthenium-103	Air	Bq	1.33316E-07	1.51352E-07	-1.2607E-08	-5.4291E-09
Ruthenium-106	Air	Bq	-5.40512E-06	-1.13878E-15	-3.3782E-06	-2.02692E-06
Scandium	Air	kg	-1.97473E-08	8.35485E-09	-1.61413E-08	-1.19609E-08
Selenium	Air	kg	-0.000150895	0.000677763	-0.000397622	-0.000431035
Silicates, unspecified	Air	kg	-6.15362E-05	7.40532E-06	-4.44769E-05	-2.44646E-05
Silicon	Air	kg	-0.000574183	8.70678E-05	-0.000344969	-0.000316281
Silicon tetrafluoride	Air	kg	5.21973E-09	5.43056E-09	-1.32749E-10	-7.80799E-11
Silver	Air	kg	3.91043E-09	3.91739E-09	-5.92713E-12	-1.02971E-12
Silver-110	Air	Bq	1.32044E-06	1.50002E-06	-1.2546E-07	-5.41151E-08
Sodium	Air	kg	-1.32361E-05	2.47564E-05	-2.93232E-05	-8.6693E-06
Sodium carbonate	Air	kg	4.18657E-16	2.54647E-16	1.57536E-16	6.47408E-18
Sodium chlorate	Air	kg	6.53823E-08	6.79676E-08	-1.70587E-09	-8.79431E-10
Sodium dichromate	Air	kg	6.98149E-08	7.52799E-08	-3.87967E-09	-1.58531E-09
Sodium formate	Air	kg	7.73649E-09	9.25921E-09	-8.59023E-10	-6.63689E-10
Soot	Air	kg	4.228E-06	1.29251E-05	-5.93564E-06	-2.76146E-06
Strontium	Air	kg	-2.26561E-07	3.80117E-06	-2.30756E-06	-1.72017E-06
Strontium-89	Air	Bq	-1.62355E-09	-3.42059E-19	-1.01472E-09	-6.08833E-10
Strontium-90	Air	Bq	-8.92152E-07	-1.87963E-16	-5.57595E-07	-3.34557E-07
Styrene	Air	kg	1.75791E-05	3.47572E-05	-1.10297E-05	-6.14841E-06
Sulfate	Air	kg	0.00076204	0.000810724	-2.67106E-05	-2.19733E-05
Sulfur dioxide	Air	kg	0.108466082	3.069350823	-1.465294949	-1.495589792
Sulfur hexafluoride	Air	kg	-9.55701E-05	4.51068E-06	-6.30191E-05	-3.70616E-05
Sulfur oxides	Air	kg	-3.534221611	16.32781452	-9.567553373	-10.29448276
Sulfuric acid	Air		-0.017083179	0.07338875	-0.043387485	-0.047084444
t-Butyl methyl ether	Air	kg	-2.20268E-07	3.73999E-08	-2.38981E-07	-1.86864E-08
Technetium-99	Air	kg Ba	-3.78358E-11	-7.97144E-21	-2.36474E-11	-1.41884E-11
		Bq				
Tellurium-123m	Air	Bq	-4.082E-09	-8.60016E-19	-2.55125E-09	-1.53075E-09
Thallium The artifactors	Air	kg	-1.21995E-08	1.58516E-08	-1.57046E-08	-1.23464E-08
Thorium	Air	kg	-5.62789E-08	1.41953E-08	-4.25177E-08	-2.79564E-08
Thorium-228	Air	Bq	0.073052125	0.175306474	-0.057668494	-0.044585855
Thorium-230	Air	Bq	0.410650734	0.453369244	-0.027584119	-0.015134391
Thorium-232	Air	Bq	0.177546288	0.256336891	-0.045509647	-0.033280955
Thorium-234	Air	Bq	0.108139463	0.119537455	-0.007352967	-0.004045026
Tin	Air	kg	6.58437E-06	1.19727E-05	-2.96459E-06	-2.42371E-06
Titanium	Air	kg	-6.17037E-06	2.34658E-06	-4.9429E-06	-3.57404E-06
Toluene	Air	kg	0.001935314	0.004203588	-0.001440617	-0.000827658
Uranium	Air	kg	-4.56879E-08	1.27857E-08	-3.38778E-08	-2.45958E-08
Uranium-234	Air	Bq	1.271512367	1.404962046	-0.086115828	-0.047333851
Uranium-235	Air	Bq	0.061267305	0.067724929	-0.004165881	-0.002291743
Uranium-238	Air	Bq	1.722996271	2.075638587	-0.212324864	-0.140317452
Uranium alpha	Air	Bq	5.9024675	6.524553609	-0.401311678	-0.22077443
Vanadium	Air	kg	4.10331E-05	5.73255E-05	-1.08481E-05	-5.44434E-06
VOC, volatile organic compounds	Air	kg	0.000206737	0.000407854	-0.000160513	-4.06041E-05
water	Air	kg	0.007213278	0.007980509	-0.000442779	-0.000324452
Xenon-131m	Air	Bq	29.86219405	33.2690269	-2.264993381	-1.141839465
Xenon-133	Air	Bq	934.6870611	1043.306422	-72.63335376	-35.98600695
Xenon-133m	Air	Bq	4.391003116	4.851777908	-0.297553602	-0.16322119
Xenon-135	Air	Bq	384.4092986	428.9155944	-29.72970386	-14.77659191
Xenon-135m	Air	Bq	224.7791271	251.0409331	-17.59514794	-8.666658113
Xenon-137	Air	Bq	3.983008686	4.494607934	-0.35264219	-0.158957058
Xenon-138	Air	Bq Bq	36.42388455	40.92473855	-3.067889345	-1.432964652
Xylene	Air	-	0.001548258	0.003214886	-0.001070507	-0.000596121
Zinc	Air	kg ka	0.001348238	0.003214880	-0.001070307	-0.000390121
Zinc-65		kg Ba	2.55213E-05	2.89765E-05	-2.41501E-06	-1.04023E-06
	Air Air	Bq				
Zirconium	Air	kg Ba	2.08394E-08	3.63725E-08	-8.83146E-09	-6.70163E-09
Zirconium-95	Air	Bq	2.49499E-05	2.83234E-05	-2.35818E-06	-1.01535E-06

Acenaphthene	Water	kg	8.84322E-10	1.06797E-09	-1.26834E-10	-5.68112E-11
Acenaphthylene	Water	kg	-5.16097E-11	6.67909E-11	-7.47543E-11	-4.36462E-11
Acetic acid	Water	kg	2.85386E-06	2.98276E-06	-8.49273E-08	-4.39718E-08
Acidity, unspecified	Water		0.000220971	0.000238982	-1.16474E-05	-6.36385E-06
Acids, unspecified	Water	kg ka	-2.3388E-11	-4.9275E-21	-1.46175E-11	-8.7705E-12
Actinides, radioactive, unspecified	Water	kg Bq	1.295868506	1.431563158	-0.087349746	-0.048344906
Adminum	Water	-	0.027888338	0.034725029	-0.007349740	-0.00261836
Americium-241	Water	kg Bq	-2.24312E-06	-4.72593E-16	-1.40195E-06	-8.41172E-07
		-	-0.00044955	0.002327306	-0.001331733	
Ammonia	Water	kg				-0.001445123
Ammonia, as N	Water	kg	-7.59846E-07	-1.60088E-16	-4.74904E-07	-2.84942E-07
Ammonium, ion	Water	kg	-5.52161E-05	0.000199955	-0.000170465	-8.47068E-05
Antimony Antimony 122	Water	kg	5.38134E-05	5.70926E-05	-2.29487E-06	-9.84373E-07
Antimony-122	Water	Bq	0.00038162	0.000433232	-3.60769E-05	-1.55346E-05
Antimony-124	Water	Bq	0.203885521	0.225788274	-0.014217208	-0.007685545
Antimony-125	Water	Bq	0.174745796	0.193801914	-0.012405369	-0.006650748
AOX, Adsorbable Organic Halogen as Cl	Water	kg	1.49422E-06	2.30309E-06	-4.39874E-07	-3.68995E-07
Arsenic	Water	kg	-1.45797E-07	1.62014E-05	-8.30045E-06	-8.04673E-06
Arsenic, ion	Water	kg	3.92197E-05	5.42278E-05	-8.91548E-06	-6.09259E-06
Asbestos	Water	kg	-1.09172E-09	-1.83084E-25	-6.82322E-10	-4.09393E-10
Barite	Water	kg	0.000573131	0.001214653	-0.000387422	-0.0002541
Barium	Water	kg	0.000442766	0.000714129	-0.000166725	-0.000104638
Barium-140	Water	Bq	0.001671737	0.001897784	-0.000158012	-6.80353E-05
Benzene	Water	kg	4.3139E-05	4.95923E-05	-4.22078E-06	-2.23251E-06
Benzene, chloro-	Water	kg	-1.43516E-14	1.72669E-15	-1.03727E-14	-5.70562E-15
Benzene, ethyl-	Water	kg	3.701E-06	4.90601E-06	-8.09409E-07	-3.95599E-07
Beryllium	Water	kg	2.87115E-06	3.92076E-06	-5.64401E-07	-4.85213E-07
BOD5, Biological Oxygen Demand	Water	kg	-0.023183805	0.34562805	-0.179637878	-0.189173976
Boron	Water	kg	0.000518481	0.000862757	-0.000175212	-0.000169064
Bromate	Water	kg	1.49767E-06	9.5469E-06	-4.10524E-06	-3.94399E-06
Bromine	Water	kg	0.00018683	0.000216268	-2.03784E-05	-9.05899E-06
Butene	Water	kg	1.1301E-09	2.25782E-09	-9.92897E-10	-1.34819E-10
Cadmium	Water	kg	5.41478E-07	2.85709E-06	-1.26339E-06	-1.05223E-06
Cadmium-109	Water	Bq	-6.52988E-11	-1.37575E-20	-4.08117E-11	-2.4487E-11
Cadmium, ion	Water	kg	1.91988E-05	2.42264E-05	-2.95912E-06	-2.06849E-06
Calcium compounds, unspecified	Water	kg	-0.0011552	0.000139675	-0.000835486	-0.000459389
Calcium, ion	Water	kg	0.124032092	0.148230437	-0.015588447	-0.008609898
Carbon-14	Water	Bq	-0.000113508	-2.39143E-14	-7.09422E-05	-4.25653E-05
Carbonate	Water	kg	0.00078776	0.000851551	-4.68494E-05	-1.69411E-05
Carboxylic acids, unspecified	Water	kg	0.00059889	0.000729661	-8.98503E-05	-4.09208E-05
Cerium-141	Water	Bq	0.000668391	0.000758765	-6.31741E-05	-2.72006E-05
Cerium-144	Water	Bq	0.000152131	0.000230993	-5.13251E-05	-2.75365E-05
Cesium	Water	kg	1.39161E-07	1.72061E-07	-2.25686E-08	-1.03314E-08
Cesium-134	Water	Bq	0.160248318	0.177481544	-0.011123167	-0.006110059
Cesium-136	Water	Bq	0.000118627	0.000134666	-1.1212E-05	-4.82748E-06
Cesium-137	Water	Bq	149.0242977	164.6368599	-10.05163966	-5.560922545
Chlorate	Water	kg	0.000117178	0.000179108	-3.16406E-05	-3.02894E-05
Chloride	Water	kg	2.615557308	2.714886354	-0.064464854	-0.034864193
Chlorinated solvents, unspecified	Water	kg	1.73176E-05	1.74419E-05	-8.12678E-08	-4.30269E-08
Chlorine	Water	kg	1.20938E-05	1.29173E-05	-5.7152E-07	-2.51949E-07
Chloroform	Water	kg	-6.42075E-10	6.29638E-13	-3.22126E-10	-3.20579E-10
Chromate	Water	kg	-3.09099E-13	4.70277E-18	-2.80801E-13	-2.83022E-14
Chromium	Water	kg	-1.36129E-05	2.18062E-05	-1.98162E-05	-1.56029E-05
Chromium-51	Water	Bq	0.201994269	0.22710361	-0.01708864	-0.008020702
Chromium VI	Water	kg	0.00059095	0.000791935	-0.000113637	-8.73479E-05
Chromium, ion	Water	kg	1.23892E-05	1.53873E-05	-1.67786E-06	-1.32027E-06
Cobalt	Water	kg	-0.000603289	0.000196637	-0.000438873	-0.000361053
		-9				

0.1.11.57	107	5	0.000705044	0.004074007	0.00055040	0.000450040
Cobalt-57	Water	Bq	0.003765644	0.004274807	-0.000355918	-0.000153246
Cobalt-58	Water	Bq	1.555692306	1.735172478	-0.119338392	-0.060141779
Cobalt-60	Water	Bq	1.215834603	1.358510916	-0.095262557	-0.047413757
COD, Chemical Oxygen Demand	Water	kg	0.079711637	0.121280654	-0.024497928	-0.01707109
Copper	Water	kg	-5.96334E-06	3.24845E-05	-1.84384E-05	-2.00095E-05
Copper, ion	Water	kg	0.001674565	0.002117978	-0.000314036	-0.000129377
Crude oil	Water	kg	-7.88873E-06	4.13175E-05	-3.28863E-05	-1.63199E-05
Cumene	Water	kg	3.66672E-05	3.83025E-05	-1.01323E-06	-6.22102E-07
Curium alpha	Water	Bq	-2.97282E-06	-6.26328E-16	-1.85801E-06	-1.11481E-06
Cyanide	Water	kg	0.000194387	0.000236038	-2.36353E-05	-1.80161E-05
Cyanide (inorganic) compounds	Water	kg	5.47796E-07	5.97392E-07	-2.37942E-08	-2.58021E-08
Detergent, anionic	Water	kg	-3.16268E-07	6.34222E-07	-7.89785E-07	-1.60705E-07
Dichromate	Water	kg	2.58694E-07	2.78918E-07	-1.43572E-08	-5.86706E-09
DOC, Dissolved Organic Carbon	Water	kg	0.017009206	0.032119113	-0.008678137	-0.00643177
Emission, unspecified	Water	kg	-4.00508E-05	0.000560898	-0.000480761	-0.000120187
EOCI, Extractable organic chlorine	Water	kg	-6.52888E-11	-1.09492E-26	-4.08055E-11	-2.44833E-11
Ethane, 1,1,1-trichloro-, HCFC-140	Water	kg	-1.10456E-14	-2.32714E-24	-6.90348E-15	-4.14209E-15
Ethane, 1,1,2-trichloro-	Water	kg	1.27859E-14	1.33524E-14	-2.71776E-16	-2.9471E-16
Ethane, 1,2-dichloro-	Water	kg	6.02601E-07	6.21061E-07	-1.47831E-08	-3.67721E-09
Ethane, dichloro-	Water	kg	-4.15035E-09	4.98576E-10	-2.99906E-09	-1.64986E-09
Ethane, hexachloro-	Water	kg	-2.25034E-16	-4.74112E-26	-1.40646E-16	-8.43876E-17
Ethene	Water	kg	1.01526E-05	1.04243E-05	-1.80774E-07	-9.08552E-08
Ethene, chloro-	Water	kg	1.33936E-06	1.34773E-06	-6.35648E-09	-2.01022E-09
Ethene, tetrachloro-	Water	kg	-2.67227E-14	-5.63008E-24	-1.67017E-14	-1.0021E-14
Ethene, trichloro-	Water	kg	-7.08837E-10	8.54178E-11	-5.12425E-10	-2.8183E-10
Ethylene diamine	Water	kg	7.61863E-11	8.88331E-11	-8.33663E-12	-4.31012E-12
Ethylene oxide	Water	kg	1.22416E-09	1.34923E-09	-7.8342E-11	-4.67255E-11
Fatty acids as C	Water	kg	-5.92262E-08	-1.24781E-17	-3.70164E-08	-2.22098E-08
Fluoride	Water	kg	0.000741515	0.002105925	-0.000788153	-0.000576257
Fluorine	Water	kg	-0.000271325	2.56987E-08	-0.000169599	-0.000101752
Fluosilicic acid	Water	kg	1.67117E-06	2.20491E-06	-3.94325E-07	-1.39416E-07
Formaldehyde	Water	kg	-2.80083E-06	2.66983E-06	-5.07803E-06	-3.92632E-07
Glutaraldehyde	Water	kg	7.07499E-08	1.49954E-07	-4.78316E-08	-3.13724E-08
Heat, waste	Water	MJ	13.2996982	14.90992692	-1.099296085	-0.510932636
Hydrocarbons, aliphatic, alkanes, unspecified	Water	kg	1.80168E-05	2.23769E-05	-2.98756E-06	-1.37256E-06
Hydrocarbons, aliphatic, alkenes, unspecified	Water		-4.2302E-08	5.09574E-09	-3.0579E-08	-1.68187E-08
Hydrocarbons, aliphatic, alkeries, unspecified Hydrocarbons, aliphatic, unsaturated	Water	kg ka	1.70609E-06	2.06039E-06	-2.44696E-07	-1.09604E-07
Hydrocarbons, aromatic	Water	kg ka	7.62828E-05	0.000146686	-3.99891E-05	-3.04145E-05
Hydrocarbons, chlorinated	Water	kg ka	1.43623E-08	4.03902E-07	-2.06351E-07	-1.83189E-07
Hydrocarbons, unspecified	Water	kg	0.000175885	0.000561558	-0.000240532	-0.000145141
Hydrogen	Water	kg ka	-5.35961E-05	8.68306E-06	-3.80431E-05	-2.4236E-05
, ,	Water	kg Ba	341252.216	377002.2245	-23014.99245	-12735.01606
Hydrogen acrovide		Bq	4.70426E-08	5.24757E-08	-3.87741E-09	-1.55571E-09
Hydrogen peroxide	Water	kg				
Hydrogen sulfide	Water	kg	1.0793E-05	1.59046E-05	-3.90856E-06	-1.20305E-06
Hydroxide	Water	kg	5.85022E-07	6.45639E-07	-3.89557E-08	-2.1661E-08
Hypochlorite	Water	kg	2.36496E-05	2.60844E-05	-1.55789E-06	-8.76935E-07
Hypochlorous acid	Water	kg	-4.92336E-06	5.93892E-07	-3.55964E-06	-1.95761E-06
lodide	Water	kg	1.4789E-05	1.83595E-05	-2.42073E-06	-1.1497E-06
lodine-129	Water	Bq	-0.000324307	-6.83267E-14	-0.000202692	-0.000121615
lodine-131	Water	Bq	0.036710541	0.040717333	-0.002614276	-0.001392516
lodine-133	Water	Bq	0.001049435	0.001191387	-9.92245E-05	-4.27278E-05
Iron	Water	kg	-0.000327316	0.001353995	-0.000937405	-0.000743906
Iron-59	Water	Bq	0.000288526	0.000327538	-2.72702E-05	-1.17415E-05
Iron, ion	Water	kg	0.064849832	0.076219413	-0.006553592	-0.004815989
Kjeldahl-N	Water	kg	-1.10195E-05	0.000156966	-0.000133992	-3.3993E-05
Lanthanum-140	Water	Bq	0.001780548	0.002021297	-0.00016829	-7.24596E-05

Lead	Water	kg	0.000104188	0.000179682	-5.42847E-05	-2.121E-05
Lead-210	Water	Bq	3.582884473	3.849584734	-0.179745203	-0.086955058
Magnesium	Water	kg	0.012729088	0.016010959	-0.002133405	-0.001148466
Manganese	Water	kg	0.000452793	0.000740951	-0.000197714	-9.04436E-05
Manganese-54	Water	Bq	0.094385456	0.105377901	-0.007306134	-0.003686311
Mercury	Water	kg	5.77076E-06	6.90716E-06	-6.02175E-07	-5.3423E-07
Metallic ions, unspecified	Water	kg	-0.000585865	0.000222926	-0.000480609	-0.000328182
Methane, dichloro-, HCC-30	Water	kg	1.65744E-06	2.25931E-06	-3.81712E-07	-2.20152E-07
Methane, tetrachloro-, CFC-10	Water	kg	-4.07873E-14	-8.59328E-24	-2.54921E-14	-1.52953E-14
Methanol	Water	kg	1.14265E-06	4.30993E-06	-2.36576E-06	-8.01518E-07
Molybdenum	Water	kg	1.9035E-05	2.56355E-05	-4.20713E-06	-2.3934E-06
Molybdenum-99	Water	Bq	0.000613895	0.0006969	-5.80228E-05	-2.49825E-05
Neptunium-237	Water	Bq	-1.43236E-07	-3.01776E-17	-8.95223E-08	-5.37134E-08
Nickel	Water	kg	-8.71678E-07	7.34372E-06	-4.04707E-06	-4.16832E-06
Nickel, ion	Water		-0.001271237	0.001706557	-0.00163582	-0.001341974
Niobium-95	Water	kg Bq	0.012169137	0.01750337	-0.00103362	-0.001341974
			0.000213346			-0.000479803
Nitrate	Water	kg		0.003343388	-0.002117861	
Nitrite	Water	kg	2.63615E-06	3.34356E-06	-4.41755E-07	-2.65651E-07
Nitrogen	Water	kg	0.000349264	0.00051266	-0.000120562	-4.28327E-05
Nitrogen, organic bound	Water	kg	0.000640132	0.000709732	-3.95328E-05	-3.00671E-05
Nitrogen, total	Water	kg	0.000458769	0.004471199	-0.002053878	-0.001958553
non-filtrable residue	Water	kg	-0.000157875	-0.000154789	-1.48033E-06	-1.60648E-06
Non-prescribed liquids	Water	kg	-2.71895E-09	4.13675E-14	-2.47004E-09	-2.48957E-10
Oils, unspecified	Water	kg	0.009358062	0.012997517	-0.002256381	-0.001383074
Organic substances, unspecified	Water	kg	-1.7325E-08	1.02284E-08	-2.38424E-08	-3.71104E-09
PAH, polycyclic aromatic hydrocarbons	Water	kg	-1.22525E-05	9.56851E-06	-1.23383E-05	-9.48275E-06
Paraffins	Water	kg	5.3663E-10	5.90524E-10	-3.36026E-11	-2.02916E-11
Phenol	Water	kg	3.96739E-05	5.57373E-05	-1.07186E-05	-5.3448E-06
Phenols, unspecified	Water	kg	5.05876E-05	5.57292E-05	-2.70624E-06	-2.43531E-06
Phosphate	Water	kg	0.000950589	0.002499176	-0.000933003	-0.000615584
Phosphorus	Water	kg	1.63521E-05	2.78034E-05	-8.52745E-06	-2.92386E-06
Phosphorus compounds, unspecified	Water	kg	-8.25678E-12	-1.73958E-21	-5.16049E-12	-3.09629E-12
Phosphorus pentoxide	Water	kg	5.13694E-05	6.23306E-05	-8.76937E-06	-2.19182E-06
Phosphorus, total	Water	kg	0.00014261	0.000464606	-0.000154422	-0.000167573
Phthalate, dioctyl-	Water	kg	-9.79954E-16	-2.06461E-25	-6.12471E-16	-3.67483E-16
Phthalate, p-dibutyl-	Water	kg	-1.08252E-14	-2.2807E-24	-6.76574E-15	-4.05944E-15
Phthalate, p-dimethyl-	Water	kg	-6.81585E-14	-1.436E-23	-4.25991E-14	-2.55594E-14
Plutonium-241	Water	Bq	-0.00022161	-4.66899E-14	-0.000138506	-8.31037E-05
Plutonium-alpha	Water	Bq	-8.91845E-06	-1.87898E-15	-5.57403E-06	-3.34442E-06
Polonium-210	Water	Bq	4.701888336	5.027157706	-0.221660323	-0.103609047
Potassium	Water	kg	-0.000396066	4.69248E-05	-0.000286078	-0.000156913
Potassium-40	Water	Bq	2.084599935	2.293093881	-0.135250781	-0.073243165
Potassium, ion	Water	kg	0.005535671	0.006705051	-0.000823641	-0.000345739
Propene	Water		1.36488E-05	1.431E-05	-4.17246E-07	-2.44008E-07
Propylene oxide	Water	kg ka	1.13758E-07	1.86254E-07	-5.40767E-08	-1.84195E-08
Protactinium-234	Water	kg Ba	2.002199681			
		Bq		2.213233032	-0.136139846	-0.074893505
Radioactive species, unspecified	Water	Bq	1795.708955	35914.1791	-17957.08955	-16161.3806
Radioactive species, alpha emitters	Water	Bq	0.006143926	0.006428431	-0.000191239	-9.32666E-05
Radioactive species, from fission and activation	Water	Bq	-6.71804E-06	-1.41539E-15	-4.19878E-06	-2.51927E-06
Radioactive species, Nuclides, unspecified	Water	Bq	777.2179484	858.6104007	-52.39497187	-28.99748043
Radium-224	Water	Bq	7.108123435	8.584945531	-1.019924791	-0.456897304
Radium-226	Water	Bq	1260.00008	1393.882225	-86.48434912	-47.39779529
Radium-228	Water	Bq	14.21624415	17.16988988	-2.039850748	-0.913794983
Rubidium	Water	kg	1.49912E-06	1.80253E-06	-2.09175E-07	-9.42309E-08
Ruthenium	Water	kg	-1.14914E-10	-2.42108E-20	-7.18216E-11	-4.30929E-11
Ruthenium-103	Water	Bq	0.000129534	0.000147052	-1.22456E-05	-5.27289E-06

Ruthenium-106	Water	Bq	-0.000540512	-1.13878E-13	-0.00033782	-0.000202692
Salts, unspecified	Water	kg	-8.59402E-05	1.03015E-05	-6.20826E-05	-3.41591E-05
Scandium	Water	kg	3.7957E-06	5.22054E-06	-8.27897E-07	-5.96947E-07
Selenium	Water	kg	-4.94452E-07	7.64524E-06	-5.19506E-06	-2.94463E-06
Silicon	Water	kg	-0.368630714	0.341729883	-0.391642121	-0.318718476
Silver	Water	kg	-2.87401E-07	2.1996E-10	-1.79804E-07	-1.07817E-07
Silver-110	Water	Bq	1.165704253	1.301486127	-0.09068559	-0.045096285
Silver, ion	Water	kg	1.43216E-07	1.84708E-07	-2.94914E-08	-1.20003E-08
Sodium-24	Water	Bq	0.004644549	0.005272931	-0.00043923	-0.000189152
Sodium formate	Water	kg	1.85865E-08	2.22447E-08	-2.06375E-09	-1.59447E-09
Sodium, ion	Water	kg	0.051216762	0.081343221	-0.020932339	-0.00919412
Solids, inorganic	Water	kg	0.034322552	0.069883977	-0.027871781	-0.007689645
Solved organics	Water		-1.86536E-05	2.47662E-05	-3.02157E-05	-1.32041E-05
Solved solids	Water	kg	-0.086901872	0.014750116		
		kg			-0.055758037	-0.045893951
Solved substances	Water	kg	-0.000528777	6.7821E-05	-0.00038559	-0.000211008
Solved substances, inorganic	Water	kg	0.000875446	0.017517552	-0.008760047	-0.007882059
Strontium	Water	kg	0.001152982	0.001420907	-0.000179274	-8.86508E-05
Strontium-89	Water	Bq	0.018304621	0.020585862	-0.001548787	-0.000732455
Strontium-90	Water	Bq	1297.71356	1430.311927	-84.77657394	-47.82179212
Styrene	Water	kg	2.55731E-14	2.67062E-14	-5.43581E-16	-5.89452E-16
Sulfate	Water	kg	0.21480321	0.264842958	-0.030235545	-0.019804202
Sulfate and sulfides	Water	kg	-1.83582E-09	7.76178E-09	-4.6027E-09	-4.9949E-09
Sulfide	Water	kg	1.45283E-05	1.51144E-05	-3.54053E-07	-2.32004E-07
Sulfite	Water	kg	6.12106E-05	6.80092E-05	-4.29093E-06	-2.50769E-06
Sulfur	Water	kg	2.2198E-05	2.82956E-05	-4.21535E-06	-1.88223E-06
Sulfur trioxide	Water	kg	-5.10225E-07	6.15888E-08	-3.68932E-07	-2.02882E-07
Suspended solids, unspecified	Water	kg	-0.117668057	0.577465707	-0.333890763	-0.361243001
Suspended substances, unspecified	Water	kg	0.000707019	0.026435097	-0.013624958	-0.012103121
t-Butyl methyl ether	Water	kg	2.38535E-07	3.02965E-07	-4.57318E-08	-1.8699E-08
Technetium-99	Water	Bq	-5.67538E-05	-1.19572E-14	-3.54711E-05	-2.12827E-05
Technetium-99m	Water	Bq	0.014251652	0.016173745	-0.001342694	-0.0005794
Tellurium-123m	Water	Bq	0.021367333	0.02364038	-0.001467808	-0.00080524
Tellurium-132	Water	Bq	3.55456E-05	4.03519E-05	-3.35973E-06	-1.44659E-06
Thallium		•		5.11536E-07		
	Water	kg	4.01632E-07		-6.48952E-08	-4.50085E-08
Thorium-228	Water	Bq	28.45857113	34.36722452	-4.080676027	-1.827977368
Thorium-230	Water	Bq	273.1804197	301.9740385	-18.57506113	-10.21855776
Thorium-232	Water	Bq	0.340719757	0.377082559	-0.023420709	-0.012942092
Thorium-234	Water	Bq	2.002420725	2.21347741	-0.136154891	-0.074901794
Tin, ion	Water	kg	-7.49546E-05	0.000162292	-0.00016401	-7.32369E-05
Titanium, ion	Water	kg	0.001524642	0.001913167	-0.000260145	-0.000128381
TOC, Total Organic Carbon	Water	kg	0.01804583	0.05767826	-0.021614185	-0.018018245
Toluene	Water	kg	1.71062E-05	2.62301E-05	-5.4682E-06	-3.65562E-06
Toluene (methylbenzene)	Water	kg	2.35905E-06	5.07004E-06	-1.74746E-06	-9.63532E-07
Tributyltin	Water	kg	-2.81353E-08	3.39838E-09	-2.03458E-08	-1.11879E-08
Tributyltin compounds	Water	kg	1.57365E-05	3.34249E-05	-1.1395E-05	-6.29342E-06
Triethylene glycol	Water	kg	1.66531E-06	2.9384E-06	-7.03598E-07	-5.69487E-07
Tungsten	Water	kg	5.05068E-06	5.87538E-06	-5.04774E-07	-3.19933E-07
Undissolved substances	Water	kg	-9.43228E-07	-1.98724E-16	-5.89517E-07	-3.5371E-07
Uranium-234	Water	Bq	2.402638248	2.655879617	-0.163368655	-0.089872713
Uranium-235	Water	Bq	3.964355473	4.382201294	-0.269556721	-0.1482891
Uranium-238	Water	Bq	7.850379924	8.620852079	-0.500990966	-0.269481188
Uranium alpha	Water	Bq	115.3517697	127.5099762	-7.843381318	-4.314825188
Vanadium, ion	Water	kg	7.21126E-05	0.000127331	-3.33108E-05	-2.19071E-05
VOC, volatile organic compounds as C	Water	kg	-4.02003E-09	-8.4696E-19	-2.51252E-09	-1.50751E-09
VOC, volatile organic compounds, unspecified origin	Water	kg kg	5.47712E-05	6.56324E-05	-7.47708E-06	-3.38411E-06
waste water	Water	kg kg	4.609137677	6.762548298	-1.329831873	-0.823578748
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Waste water/m3	Water	m3	0.000617516	0.000620525	-2.40058E-06	-6.07956E-07
Water	Water	kg	0.33255597	6.35989796	-4.816152955	-1.211189035
Xylene	Water	kg	1.7564E-05	2.50887E-05	-4.98975E-06	-2.53493E-06
Yttrium-90	Water	Bq	-1.30448E-09	-2.74834E-19	-8.153E-10	-4.8918E-10
Zinc	Water	kg	3.69591E-05	9.08039E-05	-2.5823E-05	-2.80218E-05
Zinc-65	Water	Bq	0.062973551	0.07148901	-0.005952473	-0.002562986
Zinc, ion	Water	kg	0.000724958	0.000898874	-0.000106782	-6.71349E-05
Zirconium-95	Water	Bq	0.000724664	0.000827863	-7.17984E-05	-3.14004E-05
Aluminium waste	Waste	kg	-0.000285056	7.84524E-07	-0.000210672	-7.51681E-05
Asbestos	Waste	kg	-6.5824E-09	-1.10389E-24	-4.114E-09	-2.4684E-09
ash	Waste	kg	-4.37409498	18.85980329	-11.1422284	-12.09166987
bauxite residue	Waste	kg	2.102523397	2.154195292	-0.024780133	-0.026891762
cardboard	Waste	kg	-8.949E-05	0.001253772	-0.001074621	-0.000268641
Chemical waste, inert	Waste	kg	-4.58116E-05	0.000100449	-0.0001212	-2.50609E-05
Chemical waste, regulated	Waste	kg	-3.17156E-05	1.43345E-05	-4.01686E-05	-5.88162E-06
Chemical waste, unspecified	Waste	kg	-0.005109166	0.000275387	-0.003316555	-0.002067997
Coal tailings	Waste	kg	0.034734952	0.034734952	-7.49633E-18	-1.06437E-18
Copper waste	Waste	kg	-5.78545E-07	8.10553E-06	-6.94733E-06	-1.73674E-06
Dross	Waste	kg	0.010570752	0.01083054	-0.000124586	-0.000135202
Dust, unspecified	Waste	kg	-1.30004E-05	2.3939E-05	-2.75757E-05	-9.36372E-06
Iron waste	Waste	kg	-6.69867E-06	9.38496E-05	-8.04395E-05	-2.01088E-05
Metal waste	Waste	kg	-1.3773E-07	6.04891E-07	-6.04356E-07	-1.38265E-07
Mineral waste	Waste	kg	0.12516178	1.1995588	-0.515774133	-0.558622886
Mineral waste, from mining	Waste		-9.891E-06	0.000138575	-0.000118774	-2.96919E-05
Oil waste	Waste	kg ka	-1.19065E-05	0.000158575	-0.000118774	-3.40266E-05
		kg	-0.001225504	-2.05521E-19	-0.000133320	
Packaging waste, paper and board	Waste	kg				-0.000459564
Packaging waste, plastic	Waste	kg	-0.000621034	3.87134E-12	-0.000388218	-0.000232815
Packaging waste, steel	Waste	kg	-0.000615428	-1.03209E-19	-0.000384642	-0.000230785
Packaging waste, wood	Waste	kg	-1.13992E-08	1.73433E-13	-1.03557E-08	-1.04375E-09
Plastic waste	Waste	kg	-4.4745E-05	0.000626886	-0.00053731	-0.00013432
Prescribed liquid waste	Waste	m3	-4.3874E-10	6.67521E-15	-3.98574E-10	-4.01725E-11
Printed circuitboards waste	Waste	kg	-0.00018997	0.002661516	-0.002281213	-0.000570273
Production waste	Waste	kg	1.92388E-05	1.97116E-05	-2.26746E-07	-2.46068E-07
Production waste, not inert	Waste	kg	-0.027113198	0.003323088	-0.019224538	-0.011211748
Slags	Waste	kg	-0.000390293	7.12247E-05	-0.000283553	-0.000177964
Slags and ashes	Waste	kg	8.07843E-05	0.000336421	-0.000209617	-4.60206E-05
Sodium hydroxide	Waste	kg	-4.44362E-08	1.8523E-07	-1.1014E-07	-1.19526E-07
spent potliner	Waste	kg	0.015221884	0.015595979	-0.000179404	-0.000194691
Steel waste	Waste	kg	-0.000668562	9.97152E-06	-0.000500647	-0.000177887
Tails	Waste	kg	0.00656209	0.00656209	-1.4162E-18	-2.01081E-19
Textile Waste	Waste	kg	-0.00247	-3.76013E-18	-0.00182	-0.00065
Waste in bioactive landfill	Waste	kg	-4.1605E-06	5.82894E-05	-4.99604E-05	-1.24894E-05
Waste in licenced landfill	Waste	kg	0.12391929	0.12391929	-2.67437E-17	-3.79723E-18
Waste to recycling	Waste	kg	-9.55191E-08	1.45327E-12	-8.67745E-08	-8.74606E-09
Waste, chemicals, inert	Waste	kg	4.71269E-06	4.71269E-06	-1.01707E-21	-1.4441E-22
Waste, filter dust	Waste	kg	0.001924504	0.001924504	-4.15337E-19	-5.89721E-20
Waste, final, inert	Waste	kg	-2.10147692	0.154220745	-1.401982008	-0.853715657
Waste, fly ash	Waste	kg	-23.9498391	101.373931	-60.10123732	-65.2225328
Waste, from construction	Waste	kg	-1.51037E-07	2.29795E-12	-1.3721E-07	-1.38295E-08
Waste, from incinerator	Waste	kg	-2.19277E-09	3.07211E-08	-2.63314E-08	-6.58249E-09
Waste, industrial	Waste	kg	-0.000278463	0.000204279	-0.000336405	-0.000146337
Waste, inorganic	Waste	kg	-0.11965626	1.428360174	-1.234487163	-0.313529271
Waste, mining	Waste	kg	-2.70746E-05	0.00011447	-6.78804E-05	-7.36646E-05
waste, non-prescribed/m3	Waste	m3	-1.23589E-07	1.88034E-12	-1.12274E-07	-1.13162E-08
Waste, nuclear, high active/m3	Waste	m3	-8.63678E-10	1.04114E-10	-6.24392E-10	-3.43401E-10
Waste, nuclear, low and medium active/m3	Waste	m3	-1.93793E-07	2.34257E-08	-1.40154E-07	-7.70645E-08
rradio, national, low and modism active/mo	vvasie	1110	1.00100L-01	2.07201 L-00	1.70107L-01	7.700+0L-00

Waste, nuclear, medium active	Waste	kg	-5.91372E-06	8.99743E-11	-5.37233E-06	-5.41481E-07
Waste, Shedder dust	Waste	kg	0.000815202	0.000825565	-4.97138E-06	-5.3909E-06
Waste, solid	Waste		0.281655168	0.294990475	-0.006651833	-0.006683474
Waste, to incineration	Waste	kg ka	-2.53253E-07	6.74547E-07	-7.64488E-07	-1.63312E-07
Waste, unspecified	Waste	kg ka	1.414906075	1.56863379	-0.073930261	-0.079797454
Aclonifen	Soil	kg ka	2.13583E-07	2.54783E-07	-3.82377E-08	-2.96239E-09
		kg				
Aluminum	Soil	kg	3.80572E-05	0.000100363	-5.0643E-05	-1.16627E-05
Antimony	Soil	kg	1.49673E-11	1.72561E-11	-1.41522E-12	-8.73569E-13
Arsenic	Soil	kg	-0.000146207	0.000617189	-0.000366107	-0.000397289
Atrazine	Soil	kg	4.69513E-10	5.88432E-10	-7.65838E-11	-4.23351E-11
Barium	Soil	kg	3.29267E-05	4.46012E-05	-7.40324E-06	-4.27128E-06
Bentazone	Soil	kg	1.08775E-07	1.29757E-07	-1.94739E-08	-1.50869E-09
Beryllium	Soil	kg	-0.000139836	0.000590187	-0.000350095	-0.000379927
Boron	Soil	kg	2.41676E-06	2.78687E-06	-2.44915E-07	-1.25202E-07
Cadmium	Soil	kg	-1.78165E-05	7.52635E-05	-4.46529E-05	-4.8427E-05
Calcium	Soil	kg	-0.000123365	0.000496008	-0.000545035	-7.4338E-05
Carbetamide	Soil	kg	3.85E-08	4.59182E-08	-6.87934E-09	-5.38837E-10
Carbon	Soil	kg	0.000190313	0.000289709	-6.92274E-05	-3.01681E-05
Chloride	Soil	kg	0.034460509	0.035027578	-0.000422534	-0.000144535
Chlorothalonil	Soil	kg	1.24578E-07	1.39996E-07	-9.01929E-09	-6.39886E-09
Chromium	Soil	kg	1.72602E-07	1.09903E-06	-7.42048E-07	-1.84379E-07
Chromium (III) compounds	Soil	kg	-4.90854E-10	2.04067E-09	-1.21404E-09	-1.31749E-09
Chromium VI	Soil	kg	4.71091E-06	3.26822E-05	-1.3591E-05	-1.43804E-05
Cobalt	Soil	kg	-2.42826E-08	9.22941E-09	-3.08934E-08	-2.6186E-09
Cobalt & compounds	Soil	kg	-2.80161E-07	1.17414E-06	-6.97434E-07	-7.56865E-07
Copper	Soil	kg	-0.000278396	0.0012066	-0.000712608	-0.000772388
Cypermethrin	Soil	kg	8.35174E-10	9.95847E-10	-1.48843E-10	-1.18304E-11
Dinoseb	Soil	kg	3.38598E-08	3.80504E-08	-2.45141E-09	-1.73918E-09
Fenpiclonil	Soil	kg	1.22664E-08	1.42937E-08	-1.6734E-09	-3.53912E-10
Fluoride	Soil	kg	5.617E-06	4.65234E-05	-1.99175E-05	-2.09889E-05
Glyphosate	Soil	kg	5.06845E-07	5.89805E-07	-5.84972E-08	-2.44634E-08
Heat, waste	Soil	MJ	0.945248681	1.042889862	-0.070096826	-0.027544355
Iron	Soil	kg	0.001826303	0.002457185	-0.000359866	-0.000271016
Lead	Soil	kg	-0.000366443	0.001546624	-0.000917529	-0.000995538
Linuron	Soil	kg	1.65287E-06	1.97171E-06	-2.95913E-07	-2.29252E-08
Magnesium	Soil	kg	8.96511E-06	8.70825E-05	-6.67477E-05	-1.13697E-05
Mancozeb	Soil	kg	1.62188E-07	1.82261E-07	-1.17422E-08	-8.33066E-09
Manganese	Soil		-2.53357E-05	1.54208E-05	-3.61239E-05	-4.63265E-06
Mercury	Soil	kg ka	-5.51134E-06	2.3269E-05	-1.38023E-05	-1.4978E-05
Metaldehyde	Soil	kg ka	7.23759E-09	8.62998E-09	-1.28987E-09	-1.02522E-10
Metolachlor	Soil	kg ka	1.19519E-05	1.42575E-05	-2.13974E-06	-1.65805E-07
Metribuzin	Soil	kg ka	5.70046E-09	6.40596E-09	-4.12706E-10	-2.92799E-10
		kg				
Molybdenum	Soil	kg	-4.84097E-09	2.1641E-09	-6.41876E-09	-5.86314E-10
Napropamide	Soil	kg	1.28083E-08	1.52724E-08	-2.28268E-09	-1.81433E-10
Nickel	Soil	kg	-0.001314459	0.005547443	-0.003290862	-0.003571041
Nitrogen	Soil	kg	-1.23041E-11	-2.59228E-21	-7.69005E-12	-4.61403E-12
Oils, biogenic	Soil	kg	-0.000238346	3.26682E-05	-0.000251711	-1.93031E-05
Oils, unspecified	Soil	kg	0.008487874	0.010483088	-0.001388371	-0.000606844
Orbencarb	Soil	kg	3.07622E-08	3.45694E-08	-2.22714E-09	-1.58008E-09
Phosphorus	Soil	kg	-1.01405E-05	9.10891E-06	-1.7464E-05	-1.78538E-06
Pirimicarb	Soil	kg	1.03109E-08	1.22999E-08	-1.84596E-09	-1.43012E-10
Potassium	Soil	kg	-5.16506E-05	5.70736E-05	-9.81828E-05	-1.05414E-05
Radioactive species, unspecified	Soil	Bq	-36.37166667	509.574	-436.7611667	-109.1845
Selenium	Soil	kg	-7.97176E-09	3.36454E-08	-1.99583E-08	-2.16589E-08
Silicon	Soil	kg	-0.000105192	5.0654E-05	-0.000143087	-1.27587E-05
Silver	Soil	kg	-5.34382E-09	1.907E-09	-5.50496E-09	-1.74586E-09

Sodium	Soil	kg	0.022491301	0.022538738	-3.01752E-05	-1.72614E-05
Strontium	Soil	kg	6.62336E-07	8.96798E-07	-1.48764E-07	-8.56976E-08
Sulfur	Soil	kg	2.76406E-05	5.92186E-05	-2.4933E-05	-6.64503E-06
Tebutam	Soil	kg	3.0354E-08	3.61936E-08	-5.40964E-09	-4.29972E-10
Teflubenzuron	Soil	kg	3.79609E-10	4.2659E-10	-2.74832E-11	-1.94983E-11
Tin	Soil	kg	9.93201E-10	1.74602E-09	-4.42713E-10	-3.10111E-10
Titanium	Soil	kg	-1.89144E-06	6.54649E-07	-2.35488E-06	-1.91213E-07
Vanadium	Soil	kg	-5.41392E-08	1.87381E-08	-6.74042E-08	-5.47313E-09
Zinc	Soil	kg	9.1167E-06	3.86533E-05	-1.6333E-05	-1.32036E-05
show on tree	Non mat.	kg	0.000584579	0.000597017	-6.12313E-06	-6.31479E-06
Truck travel distance, urban	Non mat.	m	830.2395823	1137.814526	-147.5108002	-160.0641435
waste to landfill	Non mat.	kg	-1.805123833	0.11844	-1.187689583	-0.73587425
AU database, energy end use indicator, electricity delivered	Economic	MJ	-2703.134029	11426.69378	-6776.213736	-7353.614076
AU database, energy end use indicator, energy in capital equipment	Economic	MJ	7.343301973	20.34777926	-6.237284413	-6.76719287
AU database, energy end use indicator, energy losses in electricty distribution	Economic	MJ	-192.3676874	-1.56363E-14	-63.12328443	-129.244403
AU database, energy end use indicator, energy losses in electricty transmission	Economic	MJ	-73.94262278	311.2223249	-184.7125721	-200.4523755
AU database, energy end use indicator, feedstock energy	Economic	MJ	26.50891866	29.1201532	-1.663000747	-0.948233795
AU database, energy end use indicator, fuel extraction and delivery	Economic	MJ	399.204023	2045.615761	-898.5070757	-747.9046626
AU database, energy end use indicator, powerplant conversion losses	Economic	MJ	-5638.117305	23822.50279	-14128.37422	-15332.24588
AU database, energy end use indicator, process heat	Economic	MJ	-353.1217079	-966.2891667	401.4065909	211.760868
AU database, energy end use indicator, transport energy	Economic	MJ	11295.84468	23845.40531	-8152.680148	-4396.880486