

# EUR Research Information Portal

## Duurzaam aankopen Big data onderzoek naar de mate van duurzaamheid van >140.000 gepubliceerde aankondigingen van opdrachten van Belgische aanbestedende diensten

### Publication status and date:

Published: 01/01/2017

### Document Version

Publisher's PDF, also known as Version of record

### Citation for the published version (APA):

Grandia, J., & Kruijven, P.M. (2017). *Duurzaam aankopen Big data onderzoek naar de mate van duurzaamheid van >140.000 gepubliceerde aankondigingen van opdrachten van Belgische aanbestedende diensten*. <http://hdl.handle.net/1765/112904>

[Link to publication on the EUR Research Information Portal](#)

### Terms and Conditions of Use

Except as permitted by the applicable copyright law, you may not reproduce or make this material available to any third party without the prior written permission from the copyright holder(s). Copyright law allows the following uses of this material without prior permission:

- you may download, save and print a copy of this material for your personal use only;
- you may share the EUR portal link to this material.

In case the material is published with an open access license (e.g. a Creative Commons (CC) license), other uses may be allowed. Please check the terms and conditions of the specific license.

### Take-down policy

If you believe that this material infringes your copyright and/or any other intellectual property rights, you may request its removal by contacting us at the following email address: [openaccess.library@eur.nl](mailto:openaccess.library@eur.nl). Please provide us with all the relevant information, including the reasons why you believe any of your rights have been infringed. In case of a legitimate complaint, we will make the material inaccessible and/or remove it from the website.

# Sustainable procurement

*A big-data study into the level of sustainability of more than 140,000 published procurement contract notices by Belgian contracting authorities*

Dr. Jolien Grandia

Dr. Peter M. Kruyen

1 October 2017

Number: MP-OO/FIDO/2016/6

© October 2017 Radboud Universiteit • *Institute for Management Research*

Federaal Instituut voor  
**Duurzame  
Ontwikkeling** 

  
ERASMUS UNIVERSITEIT ROTTERDAM

Radboud Universiteit



© October 2017 Erasmus Universiteit Rotterdam, *Department of Public Administration & Sociology*. Radboud Universiteit · *Institute for Management Research* J. Grandia, P. M. Kruijven

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or published in any form or by any means without the express, prior and written permission of Radboud Universiteit.

# Contents

|  |           |
|--|-----------|
| <b>Acknowledgements</b> .....  | <b>4</b>  |
| <b>1 Introduction</b> .....  | <b>5</b>  |
| 1.1 Motivation .....   | 5         |
| 1.2 Objectives, research questions and products.....   | 6         |
| <b>2 Methodology</b> .....   | <b>7</b>  |
| <b>3 Results</b> .....   | <b>10</b> |
| 3.1 Typology of sustainable procurement in the Belgian public sector .....                           | 10        |
| 3.2 Consideration for sustainability in public procurement notices .....                             | 12        |
| 3.3 Correlation with other background characteristics.....   | 15        |
| <b>4 Best practice</b> .....   | <b>24</b> |
| 4.1 Identification of best practice .....  | 24        |
| 4.2 Best practice 1: GO! Education .....   | 24        |
| 4.3 Best practice 2: Toerisme Vlaanderen .....   | 25        |
| 4.4 Best practice 3: Flemish Government .....  | 25        |
| 4.5 Best practice 4: Coopération Technique Belge .....   | 25        |
| 4.6 Best practice 5: Stad Antwerpen .....  | 26        |
| 4.7 Best practice 6: Sint-Jans-Molenbeek municipal administration .....                              | 27        |
| 4.8 Best practice 7: Flemish-Brabant Roads and Traffic Agency .....                                  | 27        |
| 4.9 Best practice 8: La Régionale Visétoise d'Habitations.....                                       | 28        |
| 4.10 Best practice 9: Agency for Nature and Forests.....   | 28        |
| 4.11 Best Practice 10: Road and Traffic Agency Limburg .....   | 29        |
| 4.12 Best practice 11: Regié des Bâtiments .....   | 29        |
| 4.13 Best practice 12: CPAS Ghent.....   | 30        |
| <b>5 Conclusion</b> .....  | <b>31</b> |
| 5.1 Introduction .....   | 31        |
| 5.2 Answers to the research questions .....  | 32        |
| 5.3 Discussion and reflection .....  | 35        |
| <b>Sources and software list</b> .....   | <b>38</b> |
| <b>Annex 1: Code book</b> .....  | <b>39</b> |
| <b>Annex 2: Extent of sustainable procurement for each sustainable procurement category</b><br>..... | <b>65</b> |

## Acknowledgements

We would like to take this opportunity to thank Mr Jo Versteven (Federal Institute for Sustainable Development) for his constructive feedback on earlier versions of this report. We are also very grateful to the employees of *E-Notification*, especially Mira Rataczak, Stefan Van der Meulen and Christian Gerard, for supplying the data files. Finally, we are grateful to the members of the focus group for their valuable contributions to the development of the code book that forms the basis of our study: Pierre Goffart, Leen Van der Meeren, Frederik Claerbout, Els Verwimp, Dirk Mons, Thomas Bauwens, Roel Arys, Esther Arranz Rivera, Annelies Scholaert and Olivier Vanderick.

# 1 Introduction

## Guide

In this chapter, section 1.3, we will explain the motivation for the study. Section 1.2 will then deal with the objectives and research questions. Finally, section 1.3 provides a brief guide to this study.

### 1.1 Motivation

Public procurement represents 14% of gross national product in the European Union (European Commission, 2016). As such, public procurement is the largest business sector in the world (Hawkins, Gravier, & Powley, 2011). Public procurement contracts therefore have considerable economic potential to make procurement, and by extension the government as a whole, more environmentally friendly, more innovative and socially and ethically responsible.

Since 2005, various Belgian government agencies have explored the possibilities for sustainable public procurement and have developed relevant policies. Sustainable procurement means that works, supplies and services are purchased in such a way that society and the environment feel the impact as little as possible throughout the life cycle of the product (Meehan & Bryde, 2011). Research shows that the nature and extent of sustainable procurement varies greatly between and within government organisations (Grandia, 2015).

With the creation of *E-notification* as a publication platform where Belgian public purchasers can publish their public procurement contracts, a unique platform has emerged where large-scale public procurement notices can be consulted. Now that the Chair of the Federal Public Service Policy & Organisation has given authorisation to open up the database for research, the unique possibility has arisen to systematically and comprehensively ascertain the current state of sustainable procurement among Belgian contracting authorities and provide relevant insight.

With a view to possible future reporting to the European Commission, policy recommendations, the detection and dissemination of best practice and consequently the further sustainability of public procurement in Belgium, the Federal Institute for Sustainable Development (FIDO) has commissioned us to carry out a study into the extent to which Belgian purchasers are conscious of sustainable procurement in their public procurement notices. In this report, we present the results of our exploratory study in which, with the help of advanced text analysis software, we examined more than 140,000 public procurement notices, including any specifications, for elements of sustainable procurement.

In order to carry out the most systematic analysis possible, and given the wealth of empirical data provided by the *E-notification* database, we have focused our scientific research on all public procurement notices of all Belgian contracting authorities, including federal and regional authorities, provinces, municipalities and social institutions, which were published on the *E-notification* platform over the period 2011-2016.

In addition, based on available information in the xml files from the database of the *E-notification* platform, we have also examined whether patterns of sustainable purchases can be detected for various background characteristics,

such as the year of the public procurement notice, the size of the contract (in Euro), the type of contract (MEAT or lowest price), and the type of product or service (CPV codes).

## **1.2 Objectives, research questions and products**

The **objective** of this study is: *to systematically analyse all public procurement notices and specifications from the E-notification database and determine to what extent and how Belgian public purchasers respond to sustainable procurement policy in the public procurement notices and contract specifications and then to what extent patterns and best practice can be identified.*

In addition, the following **research questions** are fundamental:

1. *What is sustainable procurement, in the opinion of the Belgian government?*
2. *To what extent and how do purchasers respond to the sustainable procurement policy in the public procurement notices and specifications in the E-notification database?*
3. *What patterns can be identified in the public procurement notices and specifications from the E-notification database with regards to sustainable procurement?*
4. *What best practice can be identified in the public procurement notices and specifications from the E-notification database with regards to sustainable procurement?*

The answers to these four research questions led to the following four research products:

1. A typology of sustainable procurement in the Belgian public sector.
2. A detailed code book on sustainable procurement.
3. A study report describing and explaining the current state and patterns of sustainable procurement in the Belgian public sector, identifying best practice and making practical recommendations.
4. One or more (scientific) articles yet to be written that analyse, describe and explain sustainable procurement in the Belgian public sector.

## **1.3 Guide**

In chapter 2, we describe the methodology of the study. This will indicate the steps we took in the study and why. Chapter 3 describes the results of the study and chapter 4 outlines sustainable procurement best practice. Finally, in chapter 5 we present the conclusion of the study and some comments on our research.

## 2 Methodology

### Guide

This chapter presents the methodology and activities of the study.

In order to achieve the objective of the study and answer the research questions, we have undertaken a series of research activities. These activities are discussed in this chapter. Although these activities are described in chronological order, the study was an iterative process. Based on feedback, it was always checked whether the previous step had been worked out in sufficient detail, and if necessary, the step was taken again.

First and foremost, we conducted an extensive *literature study*. The aim of this literature study was to identify all possible forms of sustainable procurement incorporated by the Belgian contracting authorities in their policy. As such, we looked at policy documents, guides and websites with sustainability characteristics. In particular, the Guide for Sustainable Procurement, criteria from the Flemish Department of Environment, Nature and Energy, the GPP toolkit from the European Commission, ISO 14.001 and the recently published ISO 20.400 were important inputs. In addition, documents and websites of the regional and international authorities (including the European Commission, ISO and NBN) were also studied to identify possible forms of sustainable procurement.

The literature study resulted in a *typology* of sustainable procurement in the Belgian public sector. The following seven main forms of sustainable procurement were identified: environmentally friendly, circular economy, social, ethical trade, local or with an emphasis on SMEs, innovation, and the use of sustainable labels. These seven main forms together comprise the full spectrum of sustainable procurement in the Belgian public sector.

These main categories were then divided into subcategories and in most cases further developed into sub-subcategories. Examples include 'energy generation' and 'energy consumption' for 'environmentally friendly purchases', 'labour participation' and 'distance from the labour market' for 'social purchases' or 'rights' and 'wages' for 'ethical trade'. The typology is explained substantively in the next chapter and can be found in Annex 1.

We then converted this typology to a detailed *code book*. We began by identifying specific codes within the seven main forms of sustainable procurement in Dutch. Examples include codes such as (in English) 'solar panel', 'environmentally friendly' and 'disadvantaged group'. Synonyms were also included in the code book, so that this could also be searched for in the files (i.e. public procurement notices). So for example, not only was 'solar panel' included, but also 'solar collector'.

The first version of the (Dutch) code book containing approximately 200 unique codes was submitted to the client and the members of the *focus group*. The code book was refined in several stages through various feedback rounds with the client and focus group. During this iterative process, the Dutch code book was translated into French and was also submitted to members of the focus group from Wallonia. Part of the iterative process was to continually check the codes in

the public procurement contracts. By manually searching a randomly selected sample of files, we checked whether possible codes and writing methods with regards to sustainable procurement had been identified. So for example, both 'fairtrade' and 'fair-trade' were included as code. You can find the definitive code book, with almost 1,000 unique codes, in Annex 1.

The codes were then converted into **search terms**. These search terms contain the word root, so that the software could also identify conjugations of the word during the analysis. For example, it was possible to search with the term 'solar pan' so that both 'solar panel' and 'solar panels' could be identified in the files by the software.

In January 2017, we received a hard drive containing 145,186 folders from the Belgian *E-notification* platform for the period 2011 to early 2017. Each folder corresponded to a unique file of either an individual public procurement notice or the contract award notice. Each file contained at least one xml file containing information about the procurement contract. This xml file had been made in either Dutch or French. Sometimes a file contained both a Dutch and a French xml file. In exceptional cases we also found an xml file in another language.

After obtaining the data files, we first carried out a manual **pilot study** on a random sample of ten files. This pilot study showed that the vast majority of the xml files contained information on the procurement contract notice, including the year, postcode of the client, CPV code, but no specific information on the content of the contract. We concluded from this that an analysis of the xml files alone would lead to a distorted picture of the level of consideration given to sustainability in the public procurement contracts.

However, we also discovered during the pilot study that 28,452 files (20%) contain one or more annexes in addition to the xml file(s), such as specifications, technical specifications, bills of quantities or floor plans. In these annexes we sometimes found aspects of sustainable procurement. To the extent that these annexes were drawn up in Excel (.xls or .xlsx), Word (.doc or .docx) or Pdf format, we decided to decode these annexes in unfinished text files. This allowed us to make these annexes searchable. Other file types such as image formats could not be included in this study, as the software cannot search for the content of images for the presence of codes.

We then constructed our own database containing all xml files, and if applicable, the unfinished text files with the decoded annexes. To do this, we made use of the **Software programme R**, the **Elasticsearch** tool and the R-libraries **xml** and **Elastic**. We removed all 331 so-called public procurement contract award notices from our database, as they do not contain any information on the level of sustainable procurement when the contract is awarded.

We also found 106 files (contract notices) published in 2017. We also removed these files from the database. A total of 144,749 unique files for the years 2011 to 2016 were examined in this study.

Finally, we wrote a **script** whereby in the software program R, all files (i.e. all 144,479 public procurement notices, including any decrypted annexes) in Elasticsearch could be searched content-wise for the presence of search terms. When a search term occurred one or more times in a given file from a specific

sub-subcategory, it was considered as one hit. For example, if in a given file both the search term 'solar panel' and 'solar collector' occurred (which falls under the same sub-subcategory solar energy) we considered this as one hit. As such, in a given sub-subcategory, both the French and Dutch search terms are included, i.e. both '*panneau solaire*' and '*zonnepaneel*' (solar panel). If the documents in a given file were drawn up in both Dutch and French, the translations were therefore not counted double.

In annex 2 you will find an overview of how often each sub-subcategory occurred in the files examined (including the decoded annexes). The sub-subcategories refer to the different groups of search terms that can be found in Annex 1.

## 3 Results

### Guide

In this chapter we give an overview of the results of the study. In section 3.1, we present the result of the literature review, the typology of sustainable procurement. In section 3.2, we discuss the initial results of the empirical analysis, the level of sustainable procurement in general, and in section 3.3 we will then zoom in further on the specific characteristics of sustainable procurement in relation to the background characteristics examined.

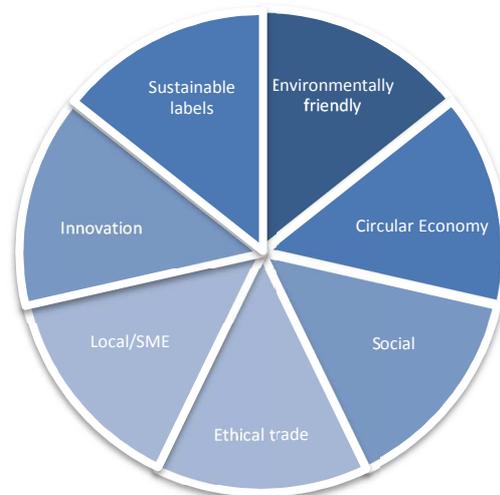
### 3.1 Typology of sustainable procurement in the Belgian public sector

Our literature review resulted in the development of a typology of sustainable procurement. This typology describes which forms of sustainable procurement, theoretically speaking, can be found in public procurement contracts awarded by Belgian contracting authorities. The typology outlines a unique overview of the various possibilities in the area of sustainable procurement in the Belgian public sector.

The typology contains seven main forms of sustainable procurement: environmentally friendly, circular economy, social, ethical trade, local/SME, innovation, and labels. Figure 1 shows a graphic representation of the typology.

The seven main forms of sustainable procurement are a concrete and extensive implementation of the more abstract concept of the 3 'P's (*People, Planet and Profit*). In which, for example, 'environmentally friendly' can be seen as a detailed implementation of '*planet*', 'social' and 'ethical trade' of '*people*', 'local and SME' of '*profit*' and, for example, 'innovation' and 'circular economy' form a link between '*profit*', '*planet*' or '*people*'. In this way, our typology puts the abstract principles of sustainable trade into practice. The seven main forms of sustainable procurement will be explained substantively in the following sub-sections.

**Figure 1. Graphic representation of typology of sustainable procurement**



### 3.1.1. Environmentally-friendly procurement

Environmentally-friendly procurement means procurement with consideration for the environmental impact of works, supplies and services on production, consumption and disposal. On the one hand, environmentally-friendly procurement involves elements that need to be avoided in the context of the environment. Examples include desertification and the emission of greenhouse gases. On the other hand, it also concerns issues that must be pursued from an environmental point of view, such as waste separation and animal welfare. Policy-wise, environmentally-friendly procurement seems to be the most developed form of sustainable procurement in Belgium. It also includes the largest variety of subcategories. These subcategories include 'energy consumption' and 'energy generation', but also 'materials consumption', 'environmental pollution', 'hazardous substances', 'transport' and 'food'. Indeed, the way in which energy is generated, the way in which service providers travel about when providing a service, or the decision to offer organic food in the company restaurant, all have an impact on the environment. Within these subcategories are sub-subcategories such as 'solar energy', 'noise pollution', 'animal welfare', 'waste separation', 'greenhouse gas', 'rainwater collection', 'carpooling' and 'desertification'.

### 3.1.2. Circular Economy

Circular economy refers to the transition to an economic system in which raw materials are re-used and waste is no longer created. The aim of the circular economy policy is to completely close the cycle, so that waste from one product is the raw material of another product. The circular economy therefore transcends environmental aspects, as is the case for environmentally-friendly procurement, but includes the transition to a new (circular) economic framework. This involves leaving behind the current/previous linear paradigm where raw materials are transformed into products that are destroyed at the end of their useful life. The transition to the circular economy therefore requires a reflection on how to close the cycle when purchasing works, supplies and services.

### 3.1.3. Social procurement

Social procurement means that social considerations are taken into account when purchasing supplies, work and services. This can be achieved, for example, by employing people who are removed from the labour market in the performance of a public procurement contract, thereby helping to reduce long-term unemployment. By purchasing socially, a project can therefore also contribute to the social objectives of a contracting authority, such as increasing local employment rates. This category of sustainable procurement therefore also includes, in addition to general social aspects, subcategories such as 'employment rate' and 'distance from the labour market'. These subcategories in turn lead into sub-subcategories such as 'increase participation', 'unemployment', 'disability' or 'disadvantaged'.

### 3.1.4. Ethical trade

Ethical trade refers to the procurement of supplies, works and services in an ethical manner. This can be done, for example, by paying attention to working conditions in the whole production chain, discrimination, child labour or paying fair prices to farmers for their products. Unlike social procurement, this is not about achieving social (national) objectives, but striving for decent work, fair wages and prices and avoiding issues such as discrimination, slave labour and child labour throughout the (international) production chain. Ethical trade is

therefore about conducting trade in an ethical manner, and paying attention to people throughout the production chain. This form of sustainable procurement therefore includes subcategories such as 'fair conditions', 'rights' and 'wages'. These subcategories lead into sub-subcategories such as 'fair trade', 'trade union freedom' and 'discrimination'.

#### 3.1.5. Local and SME

Local and SME (small and medium-sized enterprises) refers to the procurement of services, supplies or works in such a way that local or small and medium-sized entrepreneurs can supply them. This could include, for example, the purchase of regional products for the company restaurant, or dividing the contract into lots to enable smaller companies to handle the contract. This category of sustainable procurement therefore includes the subcategories 'local' and 'SME' and sub-subcategories such as 'small business' and 'middle-sized business'.

#### 3.1.6. Innovation

Innovation refers to the innovation-driven procurement of supplies, services or works. Examples include the procurement or development of innovative solutions that meet specific needs or challenges of the Belgian public sector. Innovation here refers to the application of a new or significantly improved product, service, process (such as production processes), sales method, or organisational method (for example, a smarter business process). Innovation is therefore part of sustainable procurement that can help society to progress across the board, because it can respond to societal trends in all kinds of areas, including energy, security, health care or the public space.

#### 3.1.7. Sustainable labels

Sustainable labels are a special form of sustainable procurement. It encompasses a wide range of sustainable labels and standards that may be specified when purchasing supplies, services or works. Examples include the 'FSC label' for sustainable wood, the 'Oekotex label' for durable textiles or the 'Leaping Bunny label' for animal-friendly products. By requesting tendering parties to use products that comply with these (or comparable) labels, it can be ensured that the products or raw materials to be used are sustainable. Sustainable labels therefore do not so much encompass a type of sustainable procurement, such as 'environmentally friendly' or 'social', but rather a method that helps contractors and clients to make more sustainable choices and demonstrate these sustainable choices. There are many different subcategories of sustainable labels, including 'environmental' labels, 'local' labels and 'ethical trade'. These subcategories in turn lead into sub-subcategories such as 'energy', 'wood', 'textiles' or 'working conditions'.

In the next section we will describe the level of attention paid to these seven main categories of sustainable procurement in the files from the *E-notification* database.

### **3.2 Consideration for sustainability in public procurement notices**

An initial analysis of all 144,749 files of public procurement notices shows that in 23% of the files, there is consideration for sustainability (see Table 3.1). This concerns files both with and without annexes. Here, consideration for sustainability means that in one specific dossier, from one individual notice of a

public procurement contract, reference is made at least once to one or more sub-subcategories of sustainable procurement.

In the 'method' chapter we already noted that only 28,452 (20%) of the 144,749 files contain one or more annexes. As expected, there was much more attention to sustainability in the case of files with annexes than in the case of notices without annexes: 70% of the files with annexes gave consideration to sustainability, while only 12% of the files without annexes gave consideration to sustainability. This finding therefore means that we are very cautious when interpreting the results of the analyses.

**Table 3.1. Relationship between public procurement notice with and without annex(es) and consideration for sustainability**

*Consideration for sustainability*

| <i>Annex(es)</i> | No            | Yes          | Sum     |
|------------------|---------------|--------------|---------|
| <i>No</i>        | 102,330 (88%) | 13,967 (12%) | 116,297 |
| <i>Yes</i>       | 8,731 (30%)   | 19,721 (70%) | 28,452  |
| <i>Total</i>     | 111,061 (77%) | 33,688 (23%) | 144,749 |

We then examined how often in all the files there was consideration for the seven main categories of sustainable procurement in our typology (both with and without annexes). The results are shown in Table 3.2. It is of course possible that one file in particular gave consideration to several categories of sustainable procurement.

**Table 3.2. Consideration for sustainability per main category (n = 144,749)<sup>1</sup>**

| <i>Main category</i>     | <i>Number</i> |
|--------------------------|---------------|
| Environmentally friendly | 26.271        |
| Ethical trade            | 11.362        |
| Social                   | 11.335        |
| Label                    | 8.417         |
| Local/SME                | 4.080         |
| Circular Economy         | 2.294         |
| Innovation               | 1.551         |

It is striking that, in relative terms, the most frequent reference is made to environmentally friendly procurement in all files (i.e. with and without annexes). In fully 26,271 of a total 144,749 cases, consideration was given at least once to one or more sub-subcategories of environmentally-friendly procurement. As such, 'consideration' means that there was at least one search term from a sub-subcategory of environmentally-friendly procurement in the file. In addition, in the files (with and without annexes) significant consideration was given to ethical trade (11,362 files) and social procurement (11,335 files). With regards to the other categories, the least attention was paid to innovative procurement (1,551 dossiers). The relatively low scores for local/SME, circular economy and innovation are also noteworthy.

<sup>1</sup> Note. Number = Number of files in which there is consideration for one or more (sub-)subcategories of the relevant main category.

Table 3.3 shows the results for the analysis of the 144,749 dossiers (with and without annexes) regarding the 31 subcategories. The subcategories are arranged according to the level of consideration. The table shows that there are a relatively large number of files with consideration for environmental friendliness in general. This subcategory includes search terms such as 'environmentally friendly' and 'green'. In concrete terms there are 17,361 files in which one or more terms belonging to the subcategory 'Environmentally friendly General' can be found. The table also shows that quite a lot of consideration is given to 'waste', 'working conditions', 'food' and 'environmental labels'. On the other hand, the very small number of files with consideration for 'fair wages', 'environmentally-friendly use of materials', 'local labels', 'local purchases' and 'fair prices' is striking. We can conclude from this that, in terms of ethical trade, Belgian contracting authorities (within the 144,749 files) therefore pay particular attention to working conditions and fair conditions, and relatively speaking less attention to fair wages and prices. However, it is important to remember that for some subcategories, such as 'environmentally friendly general', there are many more search terms, whereby the chance that this category scores high increases significantly compared to subcategories with few search terms, such as 'local labels'.

**Table 3.3. Consideration for sustainability per subcategory (n = 144,749)<sup>2</sup>**

| <i>Main category</i>     | <i>Subcategory</i>              | <i>Number</i> |
|--------------------------|---------------------------------|---------------|
| Environmentally friendly | General                         | 17.361        |
| Environmentally friendly | Waste                           | 11.696        |
| Ethical trade            | Working conditions              | 8.699         |
| Environmentally friendly | Food                            | 8.485         |
| Sustainable label        | Environmental label             | 8.340         |
| Social                   | Labour participation            | 6.841         |
| Social                   | Distance from the labour market | 5.857         |
| Environmentally friendly | Environmental pollution         | 5.383         |
| Ethical trade            | Fair conditions                 | 5.127         |
| Local/SME                | SME                             | 4.043         |
| Ethical trade            | Work                            | 3.752         |
| Environmentally friendly | Hazardous substances            | 3.640         |
| Environmentally friendly | Energy consumption              | 3.470         |
| Environmentally friendly | Gases                           | 3.243         |
| Ethical trade            | Rights                          | 3.086         |
| Environmentally friendly | Transport                       | 3.017         |
| Environmentally friendly | Energy generation               | 2.554         |
| Circular Economy         | Circular Economy                | 2.294         |
| Environmentally friendly | Soil                            | 1.762         |
| Innovation               | Innovation                      | 1.551         |
| Environmentally friendly | Water                           | 1.403         |
| Social                   | Social general                  | 1.033         |
| Environmentally friendly | Sustainable raw materials       | 801           |
| Environmentally friendly | Sustainable energy              | 479           |
| Sustainable label        | Ethical trade label             | 288           |

<sup>2</sup> Number = Number of files in which there is consideration for one or more sub-subcategories of the relevant subcategory.

|                          |                       |     |
|--------------------------|-----------------------|-----|
| Environmentally friendly | Forests               | 270 |
| Sustainable label        | Local label           | 86  |
| Environmentally friendly | Materials consumption | 81  |
| Ethical trade            | Wages                 | 62  |
| Local/SME                | Local                 | 50  |
| Ethical trade            | Prices                | 7   |

Table 3.4 shows the number of hits per file at the sub-subcategories level. On average, there are 4.21 hits at the level of the sub-subcategories for the 33,688 files in which there is consideration for sustainability. The table also shows a number of outliers. Four of the files give consideration for more than 40 sub-subcategories. Some of the files with significant consideration for sustainability are therefore discussed as best practice in the next chapter.

It is important to bear in mind that the number of hits only reflects *how many* different sub-subcategories appear in a given file (including any attachments), but not exactly *what* is written. For example, some files surface (have a lot of hits) not because the published public procurement contract itself is so sustainable, but because it pertains to a study into sustainability. At the same time, a small number of hits may indicate that a very specific, effective sustainability requirement has been deliberately chosen. Not every contract notice which scores highly is therefore automatically best sustainable procurement practice, and not every procurement notice that pays attention to few sub-subcategories is bad practice.

**Table 3.4. Level of consideration for sustainability in public procurement notices**

| <i>From</i> | <i>Until</i> | <i>Number</i> |
|-------------|--------------|---------------|
| 0           | 0            | 111,031       |
| 1           | 5            | 24,370        |
| 6           | 10           | 6,299         |
| 11          | 15           | 2,057         |
| 16          | 20           | 689           |
| 21          | 25           | 200           |
| 26          | 30           | 68            |
| 31          | 35           | 27            |
| 36          | 40           | 4             |
| 41          | 45           | 2             |
| 46          | 50           | 1             |
| 51          | 55           | 1             |

### 3.3 Correlation with other background characteristics

In this section we discuss to what extent patterns can be identified in the level of consideration for sustainability and various background factors, such as type of public procurement contract, year, and type of product. Unlike the previous section, we are limiting ourselves here to the 20% (28,452) public procurement contracts containing one or more annexes. This is because the large difference in consideration for sustainability between public procurement contracts with and without annexes would limit the validity of the analyses. It should be borne in

mind that the number of files per analysis is sometimes slightly lower than 28,452 because of missing information in the xml files.

### 3.3.1 Works, supplies and services

In 28,405 xml files it was indicated whether it concerned the notice of a public procurement contract for the purchase of a service, work or supplies. In the first bivariate analysis we therefore examined whether the level of consideration given for sustainable procurement differs between these categories in the files with annexes. Table 3.5. shows the results of this bivariate analysis.

The percentages refer to the percentage of all files within the category of services, works or supplies that have at least one hit within the main category. For example, 58% of the files with published public procurement contracts (with an annex) give consideration to 'environmentally friendly' procurement and 14% require a sustainable label.

It is striking that although consideration between the main categories of sustainable procurement varies considerably (significant attention for 'environmentally friendly', less for 'innovation'), the differences between the files for services, supplies and works are less pronounced. For example, only 6% or 7% of the files with annexes for services, supplies and works give consideration for 'circular economy', while the majority give consideration for 'environmentally friendly' procurement (58%, 59% and 63%).

Finally, it is interesting to note that 'works' in all six sustainability categories score the highest and that 'services' and 'supplies' alternate. This implies that more consideration is given for multiple forms of sustainable procurement in the case of works, than is the case for services or supplies. This is also evidenced by the large number of files for works (with annexes) with at least one hit for sustainable procurement.

**Table 3.5. Analysis of sustainable procurement in % per type of product (n = 28,405)<sup>3</sup>**

| <i>Type</i>     | <i>Sustainability category</i> |           |          |          |          |          |           | <i>Files</i> |
|-----------------|--------------------------------|-----------|----------|----------|----------|----------|-----------|--------------|
|                 | <i>EF</i>                      | <i>CE</i> | <i>S</i> | <i>E</i> | <i>L</i> | <i>I</i> | <i>SL</i> |              |
| <i>Services</i> | 58                             | 7         | 34       | 36       | 11       | 5        | 14        | 9,437        |
| <i>Supplies</i> | 59                             | 6         | 26       | 37       | 9        | 2        | 19        | 5,910        |
| <i>Works</i>    | 63                             | 7         | 35       | 34       | 17       | 5        | 28        | 13,058       |

### 3.3.2 Sustainable procurement by year

Sustainable procurement is a theme which is sometimes more on the political, public and policy agenda one particular year compared to others. In recent years, more and more forms of sustainable procurement have emerged, such as the circular economy. We have therefore examined whether there is a difference over the years in the level of consideration given to the various main categories of sustainable procurement within the selected files with annex(es). Table 3.6. shows the results of this bivariate analysis.

<sup>3</sup> EF = Environmentally friendly; CE = Circular Economy; S= Social; E = Ethical trade; L = Local/SME; I= Innovation; SL = Sustainable label; Files = Number of public procurement contracts.

The table shows that the distribution between the different categories of sustainable procurement does not vary significantly over the years. Every year, significant attention is paid to 'environmentally-friendly' procurement, with 2014 as the top year in which 72% of the files with an appendix gave consideration to 'environmentally-friendly' procurement. Furthermore, 2014 was a 'top year' for the 'circular economy'. In 2014, 9% of the files with an annex gave consideration to the 'circular economy'. However in 2015 and 2016, the focus on sustainability levelled off in procurement notices, while there was even a decrease in the number of files in which consideration was given to subjects within the categories 'environmentally-friendly' and 'sustainable labels'.

**Table 3.6 Analysis of sustainable procurement in % per year (n = 28,449)<sup>4</sup>**

| Year | Sustainability category |    |    |    |    |   |    | Files |
|------|-------------------------|----|----|----|----|---|----|-------|
|      | EF                      | CE | S  | E  | L  | I | SL |       |
| 2011 | 59                      | 4  | 24 | 30 | 9  | 6 | 13 | 229   |
| 2012 | 70                      | 5  | 31 | 36 | 17 | 2 | 30 | 3214  |
| 2013 | 69                      | 7  | 31 | 32 | 16 | 5 | 21 | 4372  |
| 2014 | 72                      | 9  | 35 | 37 | 16 | 7 | 25 | 4884  |
| 2015 | 53                      | 7  | 33 | 35 | 11 | 5 | 19 | 6778  |
| 2016 | 44                      | 7  | 34 | 35 | 11 | 4 | 18 | 8972  |

### 3.3.3. Sustainable procurement by region

Based on the postcodes indicated in the xml files, we were able to determine which region the public procurement contract notice originated from. As such, we made a distinction between the Brussels-Capital Region, Flanders and Wallonia. The Federal services can therefore be divided across the three regions. Table 3.7 shows the results of the analysis.

If we look at this table, it is striking that the majority of files with an annex come from Flanders. There were fewer files of the Brussels-Capital Region and Wallonia with an annex in the *E-notification* database. It is noteworthy that, in terms of percentage, consideration for the various sustainable procurement categories hardly differs at all between the three regions. In general, in the files with annexes, relatively more attention is given to 'environmentally-friendly' procurement, 'social' and 'ethical trade', and relatively little is given to 'circular economy', 'local/SME' and 'innovation'. It is striking, however, that in percentage terms, Flanders is the frontrunner as regards 'environmentally-friendly' procurement, 'circular economy' and 'innovation', and the Brussels-Capital Region is frontrunner as regards 'social' procurement, 'ethical trade', 'local/SME' and 'sustainable labels'. In percentage terms, Wallonia scores the lowest of the three regions in all sustainability categories.

<sup>4</sup> EF = Environmentally friendly; CE = Circular Economy; S= Social; E = Ethical trade; L = Local/SME; I= Innovation; SL = Sustainable label; Files = Number of public procurement contracts.

**Table 3.7. Analysis of sustainable procurement in % by region (n = 27,711)<sup>5</sup>**

| <i>Region</i>   | <i>Sustainability category</i> |           |          |          |          |          |           | <i>Files</i> |
|-----------------|--------------------------------|-----------|----------|----------|----------|----------|-----------|--------------|
|                 | <i>EF</i>                      | <i>CE</i> | <i>S</i> | <i>E</i> | <i>L</i> | <i>I</i> | <i>SL</i> |              |
| <i>Brussels</i> | 60                             | 7         | 39       | 46       | 16       | 4        | 24        | 8800         |
| <i>Flanders</i> | 67                             | 9         | 31       | 31       | 14       | 7        | 21        | 14065        |
| <i>Wallonia</i> | 40                             | 1         | 26       | 26       | 9        | 0        | 19        | 4846         |

**3.3.4. Sustainable procurement by awarding method**

A total of 21,495 dossiers specified the award method: lowest price or the Most Economically Advantageous Tender (MEAT). The analysis shows that more attention is paid to sustainability in the files with the lowest price as the award method than in files with MEAT. Consideration for environmentally-friendly procurement is given in 74% of the notices with the lowest price award method, versus 60% of the notices using the MEAT method.

Contrary to what is assumed in practice and in the literature, multiple forms of sustainable procurement appear to be mentioned, and more often, in the files with the lowest price. For example, 'sustainable labels' (29% versus 19%) is requested more frequently, and 'ethical trade' (41% versus 33%) and 'social procurement' (43% versus 28%) are also given much more attention.

**Table 3.8 Analysis of sustainable procurement and award method in % (n = 21,495)<sup>5</sup>**

| <i>Award</i>        | <i>Sustainability category</i> |           |          |          |          |          |           | <i>Files</i> |
|---------------------|--------------------------------|-----------|----------|----------|----------|----------|-----------|--------------|
|                     | <i>EF</i>                      | <i>CE</i> | <i>S</i> | <i>E</i> | <i>L</i> | <i>I</i> | <i>SL</i> |              |
| <i>MEAT</i>         | 63                             | 8         | 29       | 36       | 10       | 5        | 20        | 9724         |
| <i>Lowest price</i> | 77                             | 9         | 46       | 44       | 22       | 5        | 31        | 11771        |

**3.3.5. Relationship sustainable procurement and amount stated**

Table 3.9a shows the average amounts for all files and Table 3.9b shows the average amounts for all files with an annex. We calculated the average of these amounts for the seven sustainability categories. All amounts in the tables are rounded up to whole numbers. In order to avoid distortion, three files with amounts in excess of EUR 3 billion were excluded from the calculations. The table shows the word 'specified' for the number of files in which an amount was indicated. 'Unknown' refers to the number of files in which *no* amount was indicated. The average refers to the average of the amounts indicated in the files times 1,000. In both tables, the first three rows provide information on the files in which there was no consideration for the specific sustainability category; the last three rows provide information on the files in which consideration was given to the specific sustainability category. The average amounts can be seen in rows 3 and 6.

<sup>5</sup> EF = Environmentally friendly; CE = Circular Economy; S= Social; E = Ethical trade; L = Local/SME; I= Innovation; SL = Sustainable label; Files = Number of public procurement contracts.

**Table 3.9a Sustainable procurement by indicated amount x 1000 (n = 144,747)<sup>6</sup>**

| <b>Amount</b>    | <b>Sustainability category</b>                    |           |          |          |          |          |           |
|------------------|---|-----------|----------|----------|----------|----------|-----------|
|                  | <b>EF</b>   | <b>CE</b> | <b>S</b> | <b>E</b> | <b>L</b> | <b>I</b> | <b>SL</b> |
|                  | <b>No consideration for the specific category</b> |           |          |          |          |          |           |
| <i>Specified</i> | 25200   | 28675     | 27428    | 27810    | 28600    | 28774    | 27563     |
| <i>Unknown</i>   | 93278   | 113780    | 105986   | 105577   | 112069   | 114424   | 108769    |
| <i>Average</i>   | 3056  | 3240      | 3372     | 3225     | 3347     | 3351     | 3300      |
|                  | <b>Consideration for the specific category</b>    |           |          |          |          |          |           |
| <i>Specified</i> | 3741  | 266       | 1513     | 1131     | 341      | 167      | 1378      |
| <i>Unknown</i>   | 22530   | 2028      | 9822     | 10231    | 3739     | 1384     | 7039      |
| <i>Average</i>   | 5246  | 13967     | 2745     | 6150     | 2646     | 1205     | 4124      |

Both tables show that there are substantial differences in average amounts indicated between files that do or do not give consideration to the sustainability categories. It is striking, for example, that on average, a higher amount is indicated in cases where consideration is given to 'environmentally-friendly', 'circular economy' and 'ethical trade' compared to cases where there was no consideration for these categories. On the other hand, a higher amount was indicated in files where there was no consideration of 'social', 'local/SME' and 'innovation' compared to the public procurement notices in which there was consideration for these categories. Finally, on average, there are also larger amounts involved in files where there is no consideration for 'sustainable labels' if we limit ourselves to the files with annexes.

**Table 3.9b Sustainable procurement by indicated amount x 1000 (n = 28,452)<sup>6</sup>**

| <b>Amount</b>    | <b>Sustainability category</b>                    |           |          |          |          |          |           |
|------------------|---|-----------|----------|----------|----------|----------|-----------|
|                  | <b>EF</b>   | <b>CE</b> | <b>S</b> | <b>E</b> | <b>L</b> | <b>I</b> | <b>SL</b> |
|                  | <b>No consideration for the specific category</b> |           |          |          |          |          |           |
| <i>Specified</i> | 1174  | 2530      | 1820     | 1724     | 2463     | 2594     | 2069      |
| <i>Unknown</i>   | 10172   | 23904     | 17236    | 16729    | 22215    | 24539    | 20279     |
| <i>Average</i>   | 1807  | 4502      | 7430     | 5031     | 5782     | 5653     | 6203      |
|                  | <b>Consideration for the specific category</b>    |           |          |          |          |          |           |
| <i>Specified</i> | 1539  | 183       | 893      | 989      | 250      | 119      | 644       |
| <i>Unknown</i>   | 15567   | 1835      | 8503     | 9010     | 3524     | 1200     | 5460      |
| <i>Average</i>   | 8252  | 18756     | 1455     | 6218     | 2324     | 1325     | 3086      |

<sup>6</sup> EF = Environmentally friendly; CE = Circular Economy; S= Social; E = Ethical trade; L = Local/SME; I= Innovation; SL = Sustainable label; Files = Number of public procurement contracts.

### 3.3.6 Sustainable procurement by CPV code (main product groups).

In Belgium, there are 9,409 separate CPV codes. In the files in the *E-notification* database we found 4,924 separate CPV codes belonging to 78 different main product groups, based on the first two digits of the CPV code.

For each main category of sustainable procurement, we then put together a top ten of the most common main product groups in files with one or more annexes. The results of this analysis can be seen in tables 3.10a to 3.10g. In the tables, 'CPV' stands for the main product group; 'description' stands for the description of the CPV code; 'files' stands for the number of procurement contracts which gave consideration for at least one sub-subcategory within the main category; and '%' stands for the percentage of procurement contracts that gave consideration to at least one sub-subcategory within the main category.

If we look at the top ten of the main category 'environmentally-friendly' in Table 3.10a, we can see that most are product groups which are directly related to the environment, such as services related to the oil and gas industry, chemical products and services related to waste water, waste, cleaning and the environment. Other product groups that stand out in this main category are public amenities, hotel, restaurant and retail services, and food, beverages, tobacco, and related products.

Table 3.10b shows that significant attention is given to 'circular economy', especially in ICT (including software development). Again, it is perhaps not surprising that public procurement contract notices for services related to waste water, waste, sanitation and environment services *and* repair and maintenance services often gave relatively more consideration to aspects of the 'circular economy'.

The sustainability categories 'social', 'ethical trade' and 'local/SME' in tables 3.10c, 3.10d and 3.10e unfortunately do not show a clear pattern. It is noteworthy here that in about 50% of the files relating to clothing, footwear, luggage and accessories, consideration is given to 'ethical trade'.

Table 3.10f shows the results for the innovation category. It is not surprising that in the product groups services for education and training *and* research and development, consideration for innovation is relatively high. What is more striking is the attention given to innovation in business services and mining. Finally, Table 3.11g shows that it is primarily the manufacturing industry where consideration is given to sustainable labels (e.g., musical instruments, textile fabrics, and office machinery and data processing equipment).

If we look at all product groups, it is noticeable that there is a relatively large amount of attention for sustainability in the product groups related to ICT services, business services, education and training services and mining. However, additional analyses are necessary in order to adequately identify the product groups in which sustainable procurement is generally given most consideration.

**Table 3.10a Environmentally-friendly (top 10)**

| <i>CPV</i> | <i>Description</i>   | <i>Files</i> | <i>%</i> |
|------------|--|--------------|----------|
| 76         | Services related to the oil and gas industry                     | 17           | 89.47    |
| 65         | Public amenities   | 53           | 85.48    |
| 41         | Collected and treated water                                      | 5            | 83.33    |
| 24         | Chemicals  | 75           | 75.76    |
| 90         | Services related to waste water, waste, cleaning and environment | 996          | 74.44    |
| 51         | Installation services (excluding software)                       | 66           | 74.16    |
| 55         | Services for hotels, restaurants and retail trade                | 78           | 73.58    |
| 14         | Mining, basic metals and related products                        | 27           | 72.97    |
| 93         | No description available   | 66           | 72.53    |
| 15         | Food, beverages, tobacco and related products                    | 201          | 69.55    |

**Table 3.10b Circular economy (top 10)**

| <i>CPV</i> | <i>Description</i>   | <i>Files</i> | <i>%</i> |
|------------|--|--------------|----------|
| 48         | Software and information systems                                 | 75           | 15.89    |
| 90         | Services related to waste water, waste, cleaning and environment | 193          | 14.42    |
| 50         | Repair and maintenance services                                  | 83           | 11.81    |
| 72         | IT services: advice, software development, etc.                  | 135          | 11.22    |
| 80         | Services for education and training                              | 44           | 10.55    |
| 43         | Machines for mining, quarrying, etc.                             | 5            | 10.42    |
| 85         | Health care and social work                                      | 23           | 9.87     |
| 33         | Medical equipment, pharmaceutical articles, etc.                 | 54           | 9.54     |
| 30         | Office machines, etc.  | 53           | 9.52     |
| 37         | Musical instruments, sport articles, games, etc.                 | 7            | 8.54     |

**Table 3.10c Social (top 10)**

| <i>CPV</i> | <i>Description</i>                                    | <i>Files</i> | <i>%</i> |
|------------|---|--------------|----------|
| 76         | Services related to the oil and gas industry          | 15           | 78.95    |
| 80         | Services for education and training                   | 244          | 58.51    |
| 75         | Services for public administration, defence, etc.     | 130          | 51.18    |
| 85         | Health care and social work                           | 117          | 50.21    |
| 41         | Collected and treated water                           | 3            | 50.00    |
| 72         | IT services: advice, software development, etc.       | 547          | 45.47    |
| 50         | Repair and maintenance services                       | 292          | 41.54    |
| 35         | Equipment for security, fire service, police and army | 110          | 40.00    |
| 18         | Clothing, footwear, luggage and accessories           | 137          | 39.03    |
| 45         | Construction works                                    | 4353         | 37.00    |

**Table 3.10d Ethical trade (top 10)**

| <i>CPV</i> | <i>Description</i>                                     | <i>Files</i> | <i>%</i> |
|------------|--|--------------|----------|
| 75         | Services for public administration, defence, etc.      | 155          | 61.02    |
| 18         | Clothing, footwear, luggage and accessories            | 190          | 54.13    |
| 72         | IT services: advice, software development, etc.        | 638          | 53.03    |
| 76         | Services related to the oil and gas industry           | 10           | 52.63    |
| 80         | Services for education and training                    | 219          | 52.52    |
| 41         | Collected and treated water                            | 3            | 50.00    |
| 35         | Equipment for security, fire service, police and army  | 137          | 49.82    |
| 19         | Leather, textile fabrics, plastic and rubber materials | 32           | 47.76    |
| 55         | Services for hotels, restaurants and retail trade      | 50           | 47.17    |
| 38         | Laboratory instruments, etc.                           | 155          | 46.27    |

**Table 3.10e Local/SME (top 10)**

| <i>CPV</i> | <i>Description</i>   | <i>Files</i> | <i>%</i> |
|------------|--|--------------|----------|
| 75         | Services for public administration, defence, and social security | 100          | 39.37    |
| 43         | Machines for mining, quarrying, and construction                 | 10           | 20.83    |
| 24         | Chemicals  | 20           | 20.20    |
| 19         | Leather, textile fabrics, plastic and rubber materials           | 13           | 19.40    |
| 51         | Installation services (excluding software)                       | 17           | 19.10    |
| 14         | Mining, basic metals and related products                        | 7            | 18.92    |
| 80         | Services for education and training                              | 73           | 17.51    |
| 45         | Construction works   | 2029         | 17.24    |
| 50         | Repair and maintenance services                                  | 111          | 15.79    |
| 76         | Services related to the oil and gas industry                     | 3            | 15.79    |

**Table 3.10f Innovation (top 10)**

| <i>CPV</i> | <i>Description</i>                              | <i>Files</i> | <i>%</i> |
|------------|---|--------------|----------|
| 80         | Services for education and training             | 61           | 14.63    |
| 79         | Business services: legal, marketing, etc.       | 147          | 11.81    |
| 73         | Research and development and related advice     | 31           | 10.20    |
| 14         | Mining, basic metals and related products       | 3            | 8.11     |
| 85         | Health care and social work                     | 18           | 7.73     |
| 98         | Other community or social services, etc.        | 10           | 7.14     |
| 34         | Transport equipment and related products        | 45           | 5.70     |
| 92         | Culture, sport and recreational services        | 9            | 5.62     |
| 72         | IT services: advice, software development, etc. | 67           | 5.57     |
| 45         | Construction works                              | 606          | 5.15     |

**Table 3.10g Sustainable labels (top 10)**

| <b>CPV</b> | <b>Description</b>                                     | <b>Files</b> | <b>%</b> |
|------------|--|--------------|----------|
| 41         | Collected and treated water                            | 3            | 50.00    |
| 37         | Musical instruments, sport articles, games, etc.       | 28           | 34.15    |
| 19         | Leather, textile fabrics, plastic and rubber materials | 22           | 32.84    |
| 30         | Office machines, etc.                                  | 178          | 31.96    |
| 51         | Installation services (excluding software)             | 27           | 30.34    |
| 45         | Construction works                                     | 3439         | 29.23    |
| 22         | Printed material and related products                  | 66           | 25.29    |
| 14         | Mining, basic metals and related products              | 9            | 24.32    |
| 39         | Furniture (including office furniture), etc.           | 156          | 24.22    |
| 18         | Clothing, footwear, luggage and accessories            | 84           | 23.93    |

## 4 Best practice

### Guide

This chapter looks at the identified best practice. The selection of best practice will be explained in section 4.1. The best practice will then be described and explained in section 4.2 et seq.

### 4.1 Identification of best practice

In order to identify best practice, we first of all selected files (with one or more annexes) that gave most consideration to sustainable procurement. As such, we looked at which files used the most possible main categories of sustainable procurement, and then which files gave consideration to the most possible subcategories and even sub-subcategories. By following this strategy, we were able to identify files which gave consideration to sustainable procurement in both breadth and depth. Based on these analyses, best practice 1 to 6 was identified. In order to ensure that we could also demonstrate best practice from different types of Belgian contracting authorities, we then looked at the files that focused on most sub-subcategories of sustainable procurement for each type of organisation. Based on these analyses, best practice 7 to 12 was identified.

When selecting the best practice, we did not take into account files with public procurement contract notices for studies into sustainability, advice on cooperation in the field of sustainability or the development of environmental management systems. This is because the high score for these files is due to the content of the contract and not the level of sustainability that can be expected in the execution of the contract.

The 12 areas of best practice are explained substantively in the following sections. Best practice is discussed in random order.

### 4.2 Best practice 1: GO! Education

The first best practice we identified in the *E-notification* database is from 2016 and concerns a notice from GO! Flemish community education for the new construction of class wings for the BUSO Reynaertschool in Oostakker.

This file focused on no less than 54 sub-subcategories of sustainable procurement. This public procurement contract notice is therefore the most diverse and comprehensive with regards to sustainable procurement of all files from the *E-notification* database. Some categories of sustainable procurement are an integral part of the contract. For example, the construction of rainwater wells was part of the construction project, so that rainwater within the buildings can be reused for toilets and washing machines, among other things. An instrument for sustainable school construction was also part of a public procurement contract notice. For each component of the sustainable school construction (e.g. raw materials and waste, energy, innovation and the natural environment) and for each phase of the school construction (from evaluation to provisional acceptance), weighted sustainability criteria were specified which had to be taken into account by the tendering party.

### **4.3 Best practice 2: Toerisme Vlaanderen**

The second area of best practice identified from the *E-notification* database is from 2014. It concerns a public procurement contract notice from Toerisme Vlaanderen (Flemish Tourist Board) for the production of brochures regarding 'all-in group stays' and 'all-inclusive individual stays' of the Accessibility Department and guides on 'Holidays' and 'Day trips' of the Steunpunt Vakantieparticipatie (Holiday Participation Help centre).

This public procurement contract notice also gave consideration to a large number of different forms of sustainable procurement. Consideration is given to seven of the main categories, including 18 different sub-categories of sustainable procurement. The contract was awarded on the basis of the most economically advantageous tender and not on the lowest price. Sustainability accounted for 10% in the award process. The tendering party had to indicate specifically the extent to which sustainable development could be integrated in the printed publications. If they were able to integrate sustainable development successfully into the contract, they were therefore more likely to be awarded the contract. Due to the abstract way in which sustainability is described here, this contract also offered opportunities for innovation-oriented procurement, one of the main categories of sustainable procurement.

### **4.4 Best practice 3: Flemish Government**

Best practice 3 is from 2015 and concerns a public procurement contract notice from the Flemish Region, represented by the Flemish Government for the provision of services to businesses. The contract was split up into 3 lots. Multiple contractors could be designated for each lot.

Lot 1 included a contract for services relating to awareness raising and image forming in the field of entrepreneurship. A maximum of seven contractors could be designated to this end. Lot 2 included support for companies at all stages of their existence (from pre-start-up to succession and takeover) in the areas of access to finance, financial literacy, new start or restart after bankruptcies, succession and takeover. Lot 3 concerned networking aimed at growth companies. For lots 2 and 3, a maximum of 5 different contractors could be designated.

We identified this notice as best practice because it addresses all 7 main categories of sustainable procurement. In terms of sustainability, lot 3 stood out in particular. In this lot, the tendering parties were specifically instructed to include a number of transversal themes (such as sustainability and corporate social responsibility) in their tenders. As with best practice 2, this gave tendering parties the opportunity to show how they can incorporate various aspects of sustainability into the contract, based on their own expertise. This best practice also provided opportunities for innovation-oriented procurement.

### **4.5 Best practice 4: Coopération Technique Belge**

The fourth area of best practice that we identified in the *E-notification* database is a public procurement contract notice from 2013 by the Coopération Technique

Belge (CTB) for project management and drawing up plans for the renovation and development of 4 secondary schools in Burundi. This public procurement contract notice is therefore not only significant because there is a great deal of attention for sustainability, but also because the performance of the contract would not be carried out in Belgium, but in one of the partner countries where the CTB is active.

This dossier was identified as best practice since consideration was given to no fewer than 21 subcategories and 34 sub-subcategories of sustainable procurement. As with the other areas of best practice, consideration was therefore given to many different categories of sustainable procurement in this file.

Although the contract was awarded on the basis of the most economically advantageous tender, sustainability was not one of the award criteria. However, consideration for sustainability was explicitly given in the specifications and various sustainability requirements were imposed on the tenderers. The specifications stated that the CTB intended to integrate environmental respect into all activities, including the implementation of projects in partner countries. Using the three pillars of sustainable development, the sustainability requirements the tendering parties and the concept had to meet were comprehensively described. For example, the buildings had to adequately protect the environment, provide a comfortable and safe environment for visitors, taking into account management and maintenance costs, energy consumption and the production of greenhouse gases and waste. A detailed description was then provided for each pillar, detailing what exactly needed to be addressed, including biodiversity, waste flows, irrigation networks, the reuse of rainwater, the use of wood from sustainably managed forests and the use of renewable energy sources, such as wind and solar energy. Tendering parties were also specifically instructed to provide innovative and creative solutions, such as an alternative to air conditioning.

#### **4.6 Best practice 5: Stad Antwerpen**

The fifth area of best practice we identified in the *E-notification* database is a public procurement contract notice from the Municipality of Antwerp in 2016. This file concerned a contract for the conclusion of a framework agreement to provide uniform clothing for employees of neighbourhood surveillance. The contract was to be entered in to for 4 years.

Specific consideration was given to 21 different sub-subcategories of sustainable procurement in this file. Although there were files with an equal score, this public procurement contract notice was chosen as best practice because of the more explicit consideration for sustainability in the specifications. The specifications explained that the City of Antwerp (Stad Antwerpen) had chosen sustainable public procurement in which ecological, social and economic criteria were incorporated in the procurement of supplies, services and works, and therefore aimed to include sustainability in all public procurement contracts by 2020. As part of this ambition, there was also explicit consideration for sustainability in these specifications. As such, sustainability was part of the award of the most economically advantageous tender. This included 10 out of 100 points for sustainability and 5 for corporate social responsibility.

The tendering parties had to indicate KPIs (*key performance indicators*) which could be tested by the client during the performance of the contract. For the sustainable award criteria, consideration had to be given to the production process of the uniform clothing, the materials to be used, waste flows, waste processing and transport. With regards to the award criteria for corporate social responsibility, tendering parties were expected to provide insight into how they would deal with various issues. What environmental mitigation measures, for example, would they take when carrying out the contract? Whether and how they would use water and energy-saving measures? How were they going to ensure a safe and healthy workplace? And what social measures would they take? For example, did the organisation work with an active diversity policy, were jobseekers from disadvantaged groups hired, and how was employee involvement? These are all elements on which the tendering parties were assessed when the contract was awarded.

#### **4.7 Best practice 6: Sint-Jans-Molenbeek municipal administration**

The sixth area of best practice concerns an announcement of a public contract from 2016 issued by the Sint-Jans-Molenbeek municipal administration. It is a contract for the construction of a mixed building that meets the passive standard, with an omnisports hall, boxing hall, multipurpose hall, a reception structure for toddlers and a concierge house. Specific consideration was given to 37 different sub-subcategories of sustainable procurement in this file.

Unlike several other areas of best practice, no specific consideration was given to sustainability in the file, but sustainable choices had been made in many aspects of the concept and set-up of the project. In this file, consideration for sustainable procurement was more implicit, yet with a large number of different subcategories. For example, photovoltaic and cogeneration installations had to be installed. It was also decided to have the contractor pay for the water and electricity consumed during the project. As such, the client gave the contractor a clear financial incentive to tackle the project from an energy-saving and water-saving perspective.

This element of best practice therefore implicitly gave consideration to a large number of sub-subcategories of sustainable procurement. This best practice also demonstrates the strength of our analyses. The software is able in particular to identify both explicit and implicit consideration for sustainability and shows that there are various ways to purchase sustainably.

#### **4.8 Best practice 7: Flemish-Brabant Roads and Traffic Agency**

The seventh area of best practice that we identified is in the field of mobility and traffic and concerns a public procurement contract notice from the Roads and Traffic Agency, Flemish-Brabant division. This file, from 2016, contains a contract for two subprojects on the Woluwelaan in Machelen. Subproject 1 consisted of the redevelopment of the Woluwelaan between the Kerklaan and the Haachtsesteenweg, including a complex. Subproject 2 included the redevelopment of the Woluwelaan between the Rempelbergstraat and the Haachtsesteenweg. Specific consideration was given to 35 different sub-subcategories, and 20 subcategories, of sustainable procurement in this file.

As in the case of best practice 4, this contract was awarded to the most economically advantageous tender and sustainability was not included in the award criteria, but there was implicit consideration for sustainability in various parts of the specifications. For example, the specifications contained various technical requirements, which suggested that sustainability had already been considered when drawing up the specifications. It was stated, for example, that there was a strong preference for composting in waste processing, environmentally-friendly cultivation of woody crops and that the LED warning signs had to be powered by green energy (solar or wind energy) and only supplemented with a diesel generator. As such, the tendering parties had to specifically demonstrate how they intended to implement these requirements or preferences, for example by using recognised sustainable labels. This element of best practice thereby implicitly gave consideration to a large number of sub-subcategories of sustainable procurement, meaning that sustainable choices were interwoven in the concept.

#### **4.9 Best practice 8: La Régionale Visétoise d'Habitations**

The eighth area of best practice is from 2012 and concerns a contract notice from 'La Régionale Visétoise d'Habitations' in Wezet. The contract related to the construction of six (social) two-room apartments.

The contract notice gave consideration to 26 different sub-subcategories of sustainable procurement. Upon examination of the file, it was observed that for the qualitative selection of the best tender, the extent to which the supplier had the technical qualities to fulfil the basic principles of '*Le concept Logement durable et la création de logements publics*' (The concept of sustainable housing and the creation of public housing) was specifically looked at. This document was annexed to the file and described the principles for sustainable housing. The three pillars of sustainability were central to this: protection of the environment, economic efficiency and social equality. As such, not only were general objectives imposed, such as lower emissions of greenhouse gases in construction, the reuse of rainwater to reduce the consumption of drinking water, or attention to waste separation in homes, but also very specific criteria which needed to be met during the construction of the sustainable housing. For example, residential homes needed to have a primary energy consumption (Ew level) of no more than 100. This element of best practice therefore gave consideration to many different sub-subcategories of sustainable procurement in a very explicit way, by linking them to the document on sustainable construction.

#### **4.10 Best practice 9: Agency for Nature and Forests**

The ninth area of best practice in sustainable procurement concerns a public procurement contract notice by the Support Services Agency (Agentschap Facilitair Bedrijf) on behalf of the Flemish Government and in particular the Agency for Nature and Forests. This file from 2016 comprised a contract for the renovation of an existing building cluster and the construction of a new warehouse.

Specific consideration was given to 30 different sub-subcategories of sustainable procurement in this file. The contract was awarded on the basis of the lowest

price method, but explicit consideration for sustainability was given in the specifications, in particular the sustainability of all wood and wood products. It was required that all wood and wood products that did not consist of recycled materials should come from sustainably managed forests. As such, the future contractor also needed to provide evidence that this requirement had been honoured. In addition to the explicit consideration for the sustainability of the wood to be used in the specifications, there were also several examples of more implicit sustainable choices in the technical provisions. For example, references were made to environmental regulations in various sections, sanitary accessories had to be recycled in an environmentally-friendly manner at the end of their life, and a solar boiler installation had to be installed. In this best practice then, there was both explicit and implicit consideration for sustainability.

#### **4.11 Best Practice 10: Road and Traffic Agency Limburg**

The tenth area of best practice that we identified in the *E-notification* database concerns a public procurement contract notice from the Mobility and Public Works department of the *Roads and Traffic Agency, Limburg division*. In 2016, they announced a contract for the construction of the N73 between Albertkanaal and Heppen (via Zuidstraat Beringen). The purpose of the contract was to extend the N73 between the E313, exit 25A and the Nijverheidsweg - Wasseven in Tessenderlo and Ham, so that the industrial zones Kolenhaven Beringen, Ravenshout North and Truibroek would be more easily accessible.

Specific consideration was given to 23 different sub-subcategories of sustainable procurement in this file. Specific and explicit consideration was given in the file to the importance of the natural environment of the project. The tendering parties were informed in the file that some of the works would take place in biologically precious or even biologically very precious areas. This meant that the contractor needed to take all possible measures to avoid soil compaction, for example in specific zones.

Taking care of the biologically precious areas was also a structural part of the contract. There was therefore also more implicit consideration in the contract for the natural environment of the project. For example, the project included the construction of two amphibian tunnels. The amphibian tunnels had the specific purpose of defragmenting the N73 and creating a temporary fauna passage. As such there was both implicit and explicit consideration for sustainability in this file.

#### **4.12 Best practice 11: Regié des Batiments**

The eleventh area of best practice we found concerns a contract notice from 2016 from the '*Regié des Batiments*' for the construction, extension and renovation of the former building of the State Archives in Arlon.

Specific consideration was given to 28 different sub-subcategories of sustainable procurement in this file. For the construction, extension and renovation of the building, consideration was given not only to sustainable procurement in terms of breadth, but also in depth. For example, in the specifications, specific consideration was given to the charter for sustainable cooperation, which was signed in 2014 by the 'Regie des Batiments' and many other organisations in the

real estate sector. This charter addressed issues such as transparency, ethical trade and consideration for the environment in procurement. However, not only was this charter indicated in the specifications, but it was also specifically stipulated that the tendering parties, by tendering to the contract, committed themselves to the content of this charter and participation in sustainable cooperation.

As this charter deals with very diverse (sub)categories of sustainable procurement, this partly explains the high score of this file. However, in addition to mentioning the charter, several other, more implicit, sustainable choices were also made during development. For example, solar panels and a rainwater tank had to be installed, and a rainwater management system had to be developed. As such there was both implicit and explicit consideration for sustainability in this file. The fact that fully 3 files from the Regié des Batîments came to light when identifying best practice shows that they often devote a great deal of attention to sustainability in their contract notices.

#### **4.13 Best practice 12: CPAS Ghent**

The final area of best practice that we identified actually included two public procurement contract notices. It appeared to be the same project, namely the construction of new assisted-living homes in Zwijnaarde on behalf of the CPAS Ghent. For some reason unbeknownst to us, the contract has presumably been restarted and consequently appears twice in the *E-notification* database. Both files gave consideration for 32 different sub-subcategories of sustainable procurement and were therefore identified as best practice.

The consideration for sustainability was also often implicit for this area of best practice, but could be found in various sections in the file. For example, the specifications specifically referred to the Decree of the Flemish Government of 17 February 2012 laying down the Flemish regulations on the sustainable management of material cycles and waste materials. In addition, we were able to identify sustainable choices in the concept in the technical regulations, including the installation of solar panels, the use of sustainable lamps and the construction of rainwater wells so that rainwater can be used sustainably in the homes, for example for food, toilets and washing machines. This area of best practice also shows how sustainable choices can be made in the concept and specifications for sustainable procurement.

## 5 Conclusion

### Guide

In this chapter we will reiterate the objectives and research questions, in section 5.1, we will answer the research questions in section 5.2 and we will reflect on the findings from a practical and methodical point of view in section 5.3.

### 5.1 Introduction

Since 2005, various Belgian government agencies have explored the possibilities for sustainable public procurement and have developed relevant policies. However, the extent to which Belgian public services actually incorporate sustainability into their procurement is unknown. Having been commissioned by the Federal Institute for Sustainable Development, we therefore examined the public procurement contract notices from the *E-notification* database from 2011 to 2016 to determine the level of sustainable procurement by Belgian contracting authorities.

The objective of this study was: to systematically analyse all public procurement notices and specifications from the *E-notification* database and determine to what extent and how Belgian public purchasers respond to sustainable procurement policy in the public procurement notices and contract specifications and what patterns and best practice can be identified.

In addition, the following research questions were fundamental:

1. What is sustainable procurement, in the opinion of the Belgian government?
2. To what extent and how do purchasers respond to the sustainable procurement policy in the public procurement notices and specifications in the *E-notification* database?
3. What patterns can be identified in the public procurement notices and specifications from the *E-notification* database with regards to sustainable procurement?
4. What best practice can be identified in the public procurement notices and specifications from the *E-notification* database with regards to sustainable procurement?

In order to achieve the objective of the study and answer the research questions, a series of research activities was undertaken. A literature study was first carried out, which formed the basis for the typology of sustainable procurement. Based on the typology, a code book was drawn up in an iterative manner, containing search terms for various categories of sustainable procurement. The code book can be found in annex 1 of this report. Using this code book and software, 144,749 files from the *E-Notification* database were subsequently searched for evidence of consideration for sustainable procurement.

## 5.2 Answers to the research questions

The research questions are answered in the following sub-sections.

### 5.2.1 What is sustainable procurement, in the opinion of the Belgian government?

On the basis of the literature study on sustainable procurement within the Belgian government, we have developed an extensive typology of sustainable procurement. This typology provides a detailed overview of the possible forms of sustainable procurement within the Belgian public sector.

The typology consists of seven main categories of sustainable procurement: 'environmentally-friendly', 'circular economy', 'social', 'local and SME', 'ethical trade', 'innovation' and 'sustainable labels'. These seven main forms of sustainable procurement show how the abstract 3 'P's of sustainable trade can be concretely translated into practice. For example, 'environmentally-friendly' procurement can be seen as a detailed implementation of '*planet*' while 'circular economy' is a link between '*planet*' and '*profit*'.

Within the seven main categories of sustainable procurement, we have identified several subcategories and sub-subcategories that indicate even more specifically what sustainable procurement in Belgium can encompass. For example, 'energy consumption' and 'energy generation', but also 'materials consumption', 'environmental pollution', 'hazardous substances', 'transport' and 'food' are part of 'environmentally-friendly' procurement. On the other hand, 'ethical trade' includes subcategories such as 'fair trade', 'rights' and 'labour'. Each of these categories is subdivided into more specific sub-subcategories such as 'solar energy', 'greenhouse gases', 'fair wages' or 'trade union freedom'.

The typology of sustainable procurement therefore offers a unique insight into the policy initiatives and possible forms of sustainable procurement within the Belgian public sector. All categories, subcategories and sub-subcategories of sustainable procurement can be found in Annex 1.

### 5.2.2 To what extent and how do purchasers respond to the sustainable procurement policy in the public procurement notices and specifications in the *E-notification* database?

In 23% of all (144,749) files (i.e. public procurement notices) from the *E-notification database* from 2011 to 2016 inclusive, consideration is given to at least one sub-subcategory of sustainable procurement. This would mean that in less than one quarter of the files there is some consideration for sustainability. However, an important qualification needs to be made here. Only 20% of all files contained one or more annexes. Analysis of the files with and without the annexes showed that 70% of the files *with* annexes gave consideration for sustainability, as opposed to only 12% of the files *without* annexes. This means that the relatively low percentage of procurement contracts in which consideration was given to sustainability can partly be explained by the absence of annexes in the *E-notification* database.

Our analysis of the files shows that, relatively speaking, by far the most consideration is given to 'environmentally-friendly' procurement. But fully 26,309

files gave consideration to at least one sub-subcategory of environmentally friendly procurement. 'Ethical trade' and 'social' procurement also feature in more than 11,000 notices. There is less consideration for 'sustainable labels', 'circular economy', and 'innovation'.

### 5.2.3 What patterns can be identified in the public procurement notices and specifications from the *E-notification* database with regards to sustainable procurement?

Various bivariate analyses were carried out to identify patterns. In order to prevent distortion, we only looked at the files with annexes. For the following background characteristics, we examined whether there was a difference in the level of consideration given to sustainable procurement: type of contract (works, supplies or services), year, award method, region, amount stated and type of work, supply or service (CPV code).

It was firstly striking that although consideration between the main categories of sustainable procurement varies considerably (significant attention for 'environmentally friendly', less for 'innovation'), the differences between the files for services, supplies and works are less pronounced. In terms of consideration for sustainability, it does not matter whether the notice is for a contract for work, supplies or service.

Over the years, there was also little difference in the distribution of consideration for the various main categories of sustainable procurement. Every year, there was significant consideration for 'environmentally-friendly' procurement and less for the other categories. In this context, 2014 was a good year for 'environmentally-friendly' procurement and 'circular economy'. In 2015 and 2016, consideration for sustainability levelled off in the notices and consideration given to 'environmentally-friendly' procurement and 'sustainable labels' even declined.

Even if we look at consideration for sustainability within the three regions, there is hardly any difference in percentage terms between the categories. Here too, in general, relatively more attention was given to 'environmentally-friendly' procurement, 'social' and 'ethical trade', and relatively little was given to 'circular economy', 'local/SME' and 'innovation'. In percentage terms, however, Flanders is clearly the frontrunner as regards 'environmentally-friendly' procurement, 'circular economy' and 'innovation', and the Brussels-Capital Region is frontrunner as regards 'social' procurement, 'ethical trade', 'local/SME' and the use of 'sustainable labels'. In percentage terms, Wallonia scores lower than the other two regions in all sustainability categories.

It was also striking that, contrary to what was assumed in practice and in the literature, multiple forms of sustainable procurement appear to be mentioned, and more often, in the files with MEAT as the award method. For example, 'sustainable labels' were requested more frequently, and 'ethical trade' and 'social procurement' were also given much more attention. MEAT is therefore not a requirement for sustainable procurement. This finding was underscored by the best practice.

Our analysis shows that there were substantial differences in the average amounts indicated between files that did or did not give consideration to the

various sustainability categories. For example, on average, higher amounts were indicated in cases where consideration was given to 'environmentally-friendly', 'circular economy' and 'ethical trade' compared to cases where there was no consideration for these categories. On the other hand, a higher amount was indicated in files where there was *no* consideration of 'social', 'local/SME' and 'innovation' compared to the files in which there was consideration for these categories. As such, it is difficult to identify a uniform pattern here.

Finally, we compiled a top ten of occurring product groups (main CPV codes) for each main category of sustainable procurement. In the top ten of the main category 'environmentally-friendly', we saw that most are product groups which are directly related to the environment, such as services related to the oil and gas industry, chemical products and services related to waste water, waste, cleaning and the environment. For 'circular economy', on the other hand, a lot of consideration was mainly given in notices for contracts for ICT (including software development) and services in the field of waste water, waste, cleaning and the environment, and repair and maintenance services. The sustainability categories 'social', 'ethical trade' and 'local/SME' unfortunately did not show a clear pattern. In the sustainability category 'innovation', it was not surprising that the relatively high level of attention for innovation in notices for contracts for education and training service *and* research and development was given to innovation. What was more striking is the attention given to innovation in business services and mining. Our analysis also showed that it is primarily the manufacturing industry where consideration is given to sustainable labels (e.g., musical instruments, textile fabrics, and office machinery and data processing equipment).

#### 5.2.4 What best practice can be identified in the public procurement notices and specifications from the *E-notification* database with regards to sustainable procurement?

12 areas of best practice were identified. The 12 areas of best practice include different types of contracting authorities, including municipalities, schools and agencies, but also various types of works and supplies, such as renovation of buildings, extension of a road or uniform clothing. These 12 files were identified as best practice because they gave consideration to a large number of different sub-subcategories of sustainable procurement.

When examining the files, it was striking that some files gave very explicit consideration to sustainability, for example by including sustainability as an award criterion. Other files gave more implicit consideration to sustainability, for example by making sustainable choices in the concept. For example, there are several areas of best practice where rainwater collection or solar panels were required. The identification of the implicit consideration for sustainability shows the strength of our research. The software was able to identify both explicit and implicit consideration for sustainability. The areas of best practice therefore show that there is no '*one best way*' to purchase sustainably, but that sustainable procurement policy can be implemented in all manner of ways.

### 5.3 Discussion and reflection

We carried out the research and analyses systematically with great care and attention. This does not mean, however, that this study does not have reservations. These reservations are discussed in the following sub-sections.

#### 5.3.1. Files with and without annexes

During the pilot study, we observed that only 28,452 (20%) of the 144,749 files contain one or more annexes. The analyses then showed that, as expected, sustainability was considered more often in files with annexes than in files without annexes. Sustainability was considered in 67% of the files with annexes, while this was the case in only 13% of the files without annexes. This finding therefore meant that we were very cautious when interpreting the results of the analyses. We therefore chose to carry out the bivariate analyses only on the files with an annex. However, this does not completely eliminate the risk of distortion in the data. Indeed, it is possible that for contract notices with a lot of consideration for sustainability, the annexes may have been uploaded more often or even less frequently in the *E-notification* database.

In order to sketch a more complete picture of (the level of sustainability of) public procurement in Belgium, it is therefore necessary that annexes, such as specifications and technical specifications, are always uploaded in the *E-notification* database. Only then can conclusions be drawn with certainty.

#### 5.3.2. Incomplete or incorrect information in the xml files

Unfortunately, the analyses showed that the xml files were sometimes incomplete or contained incorrect information.

First of all, it appeared that a given organisation did not give notice of each public procurement from a single account on the *E-notification* platform, but that there were often several accounts for one organisation. In addition, we found that fields in the xml files were unfortunately sometimes incomplete or incorrectly filled in. For example, the spellings of the names of organisations changed so often that it was impossible to make a clear overview of the procurement organisations. Or, in the case of postcodes, it was sometimes decided to use the head office (e.g. in the Brussels-Capital Region) and sometimes for the location of the employee who gave notice of the contract on the *E-notification* platform. As a result, the postcode for each organisation also varied greatly. Typing errors could also lead to errors in the analysis. For example, we found a few large sums of money (6 billion euros) for the announced public procurement contracts that could not possibly be correct. Unfortunately, such human errors can distort the findings (somewhat). For the reliability of the *E-notification* database it would therefore be useful if some information was no longer filled in by the user himself, but selected from a list, for example. This would limit typing errors in the future and increase the reliability of the information.

It was also unfortunate that some fields in the xml files were not specifically focused on the Belgian context. For example, for each type of organisation, a classification was used that may be logical in many European countries (e.g. distinction between ministry, agency and regional authority), but which was not really appropriate within the federal system of Belgium. As a result, it was not

clear beforehand where a given organisation belonged. We also found various organisations that were covered under different types of organisations. Unfortunately, this made it impossible for us to make judgements about which type of organisation purchases more or less sustainably. Indeed, the information provided was not reliable. Here, too, we recommend making adjustments to the information boxes so that the categories for type of organisation are in line with Belgian practice.

An additional complicating factor in the analyses was also that procurement contracts were sometimes carried out by public organisations on behalf of another organisation. This means that, for example, the type of organisation and postcode can give a somewhat distorted picture because the actual client is not indicated in the xml files. It would therefore be useful if, for example, this could be indicated at the time of the notice and this would automatically appear in the xml files.

### 5.3.3 Hits without context

The code book contains almost 1000 unique search terms which correspond to the various main, sub- and sub-subcategories of sustainable procurement. The software identified these search terms in the files. The software could only check *if* a search term appears in a file, not in what context this happens. As a result, some results may be slightly distorted. A good example is 'sustainable' which was sometimes used to indicate that a product must have a long lifespan, or that it must be able to withstand certain circumstances over a long period of time. If a word has several meanings, they are also included as hits.

In addition, the software could not distinguish between hits that belong to the tender or the contract. For example, we saw several times that a building to be constructed or renovated needed to be accessible to disabled people and that the toilets needed to have special facilities. These files then scored positively on consideration for disabled people, while this did not in fact mean that it was a case of social procurement. When interpreting the results, it is important to remember that the software only searches for how often a search term and therefore the sub-subcategory appears, not in which context.

This also means that the numbers of hits is not the whole picture. In the analyses we examined whether there was at least one hit per sustainability category in a file (with or without an annex) and not the content of these files. It is therefore possible that higher scores does not mean that the requirements are stricter. For example, it is possible that a public procurement contract notice in which consideration was given to relatively few categories was in fact highly sustainable, for example because it imposed challenging requirements. It also appeared that sustainability was stated as an award method more often in the files with the lowest price. It may be that the requirements with regards to sustainability are more challenging in terms of substance for the MEAT files.

The substantive analysis for the areas of best practice also showed a clear difference between the files. Sometimes given files scored very high, but the consideration given to sustainability was much more implicit than for files with a lower score. Then, for example, there was no separate section in the specifications on sustainability or sustainable award criteria, but there were very sustainable choices made in the concept, for example by choosing for solar

energy. On the one hand, this shows the strength of the analyses, since we were also able to identify the more implicit interpretations of sustainable procurement. On the other hand, our analyses only show how often there was consideration, not how comprehensive or challenging it was. Additional research is necessary to determine and explain this. Nevertheless, our study provides a unique initial overview of how often sustainability is considered in the context of public procurement notices at Belgian contracting authorities and which forms of sustainable procurement they pay specific attention to.

## Sources and software list

Chamberlain, S. (2016). *Elastic: General Purpose Interface to 'Elasticsearch'*. R package version 0.7.8. <https://CRAN.R-project.org/package=elastic>.

Elastic (2017) *Elasticsearch* (version 5.4.3). <https://www.elastic.co/>.

European Commission (29/09/2017). *Public Procurement*. [https://ec.europa.eu/growth/single-market/public-procurement\\_en](https://ec.europa.eu/growth/single-market/public-procurement_en).

Hawkins, T.G., Gravier, M.J., and Powley, E.H. (2011). *Public versus private sector procurement ethics and strategy: what each sector can learn from the other*, *Journal of Business Ethics*, 103, 567 - 586.

Lang, D. T., & the CRAN Team (2017). *XML: Tools for Parsing and Generating XML within R and S-Plus*. R package version 3.98-1.7. <https://CRAN.R-project.org/package=XML>.

Meehan, J. & Bryde, D. (2011). *Sustainable procurement practice*, *Business Strategy and the Environment*, 20, 94-106.

R Core Team (2016). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing, Vienna, Austria. <https://www.R-project.org/>.

# Annex 1: Code book

| <i>Main category</i>     | <i>Subcategory</i> | <i>Sub-subcategory</i> | <i>Codes</i>                    | <i>Search term</i>                    |
|--------------------------|--------------------|------------------------|---------------------------------|---------------------------------------|
| Environmentally friendly | energy generation  | solar                  | zonnepaneel                     | \$zonnepan                            |
| Environmentally friendly | energy generation  | solar                  | zonnepaneel                     | \$zonnecol                            |
| Environmentally friendly | energy generation  | solar                  | zonneboiler                     | \$zonneboile                          |
| Environmentally friendly | energy generation  | solar                  | zonne-energie                   | \$zonne-energ                         |
| Environmentally friendly | energy generation  | solar                  | collecteurs solaires            | \$collecteurs_solair                  |
| Environmentally friendly | energy generation  | solar                  | collecteur solaires             | \$collecteur_solair                   |
| Environmentally friendly | energy generation  | solar                  | capteur solaire                 | \$capteur_solair                      |
| Environmentally friendly | energy generation  | solar                  | capteurs solaires               | \$capteurs_solair                     |
| Environmentally friendly | energy generation  | solar                  | zonneenergie                    | \$zonneenerg                          |
| Environmentally friendly | energy generation  | solar                  | zonne energie                   | \$zonne_energie                       |
| Environmentally friendly | energy generation  | solar                  | Panneau solaire                 | \$Panneau_solair                      |
| Environmentally friendly | energy generation  | solar                  | panneaux solaires               | \$panneaux_solair                     |
| Environmentally friendly | energy generation  | solar                  | modules photovoltaïques         | \$modules_photovolta                  |
| Environmentally friendly | energy generation  | solar                  | module photovoltaïque           | \$module_photovoltai                  |
| Environmentally friendly | energy generation  | solar                  | panneau photovoltaïque          | \$panneau_photovolta                  |
| Environmentally friendly | energy generation  | solar                  | panneaux photovoltaïques        | \$panneaux_photovolta                 |
| Environmentally friendly | energy generation  | solar                  | chauffage solaire               | \$chauffage_solai                     |
| Environmentally friendly | energy generation  | solar                  | énergie solaire                 | \$énergie_solai                       |
| Environmentally friendly | energy generation  | solar                  | l'énergie solaire               | \$l'énergie_solaire                   |
| Environmentally friendly | energy generation  | wind                   | windmolen                       | \$windmole                            |
| Environmentally friendly | energy generation  | wind                   | windturbine                     | \$windturbi                           |
| Environmentally friendly | energy generation  | wind                   | windenergie                     | \$windenerg                           |
| Environmentally friendly | energy generation  | wind                   | wind-energie                    | \$wind-energie                        |
| Environmentally friendly | energy generation  | wind                   | wind energie                    | \$wind_energie                        |
| Environmentally friendly | energy generation  | wind                   | moulin à vent                   | \$moulin_à_vent                       |
| Environmentally friendly | energy generation  | wind                   | éolienne                        | \$éolien                              |
| Environmentally friendly | energy generation  | wind                   | énergie éolienne                | \$énergie_éolien                      |
| Environmentally friendly | energy generation  | wind                   | énergie du vent                 | \$énergie_du_vent                     |
| Environmentally friendly | energy generation  | water                  | getijdenenergie                 | \$getijdenenergi                      |
| Environmentally friendly | energy generation  | water                  | golflagenenergie                | \$golflagenenergi                     |
| Environmentally friendly | energy generation  | water                  | golfenergie                     | \$golfenergi                          |
| Environmentally friendly | energy generation  | water                  | waterkracht                     | \$waterkracht                         |
| Environmentally friendly | energy generation  | water                  | watermolen                      | \$watermolen                          |
| Environmentally friendly | energy generation  | water                  | L'énergie hydraulique           | \$énergie_hydraulique                 |
| Environmentally friendly | energy generation  | water                  | énergie de la houle             | \$énergie_de_la_houl                  |
| Environmentally friendly | energy generation  | water                  | énergie marémotrice             | \$énergie_marémotrice                 |
| Environmentally friendly | energy generation  | water                  | énergie des vagues              | \$énergie_des_vague                   |
| Environmentally friendly | energy generation  | water                  | énergie houlomotrice            | \$énergie_houlomotrice                |
| Environmentally friendly | energy generation  | water                  | hydroélectricité                | \$hydroélectricité                    |
| Environmentally friendly | energy generation  | water                  | énergie thermique des mers      | \$énergie_thermique_des_mer           |
| Environmentally friendly | energy generation  | water                  | OTEC                            | \$OTEC*                               |
| Environmentally friendly | energy generation  | water                  | Ocean Thermal Energy Conversion | \$Ocean_Thermal_Energy_Conve<br>rsion |
| Environmentally friendly | energy generation  | water                  | énergie marine                  | \$énergie_marine                      |
| Environmentally friendly | energy generation  | water                  | Waterturbines                   | \$Waterturbine                        |
| Environmentally friendly | energy generation  | water                  | énergie des mers                | \$énergie_des_mers                    |

|                          |                    |                       |                                      |  |
|--------------------------|--------------------|-----------------------|--------------------------------------|--|
| Environmentally friendly | energy generation  | water                 | Turbine hydraulique                  | \$Turbine_hydraulique                  |
| Environmentally friendly | energy generation  | earth/cogeneration    | aardwarmte                           | \$aardwarm                             |
| Environmentally friendly | energy generation  | earth/cogeneration    | koude-warmteopslag                   | \$koude-warmteopslag                   |
| Environmentally friendly | energy generation  | earth/cogeneration    | Warmte-krachtkoppeling               | \$Warmte-krachtkoppeling               |
| Environmentally friendly | energy generation  | earth/cogeneration    | géothermie                           | \$geothermie                           |
| Environmentally friendly | energy generation  | earth/cogeneration    | warmtekracht                         | \$warmtekracht                         |
| Environmentally friendly | energy generation  | earth/cogeneration    | warmtekracht                         | \$WKK*                                 |
| Environmentally friendly | energy generation  | earth/cogeneration    | co-génération                        | \$co-generation                        |
| Environmentally friendly | energy generation  | earth/cogeneration    | cogénération                         | \$cogeneration                         |
| Environmentally friendly | energy generation  | earth/cogeneration    | CHP                                  | \$CHP*                                 |
| environmentally friendly | energy generation  | biomass               | Biomassa                             | \$Biomassa                             |
| environmentally friendly | energy generation  | biomass               | Biomasse                             | \$biomasse                             |
| environmentally friendly | energy generation  | other                 | Terugwinning grondstoffen            | \$terugwinning_grondstof               |
| environmentally friendly | energy generation  | other                 | Terugwinning grondstoffen            | \$terugwinnen_grondstof                |
| environmentally friendly | energy generation  | other                 | Terugwinning energie                 | \$terugwinning_energie                 |
| environmentally friendly | energy generation  | other                 | Terugwinning energie                 | \$terugwinnen_energie                  |
| environmentally friendly | energy generation  | other                 | recupération energie                 | \$recuperation_energie                 |
| environmentally friendly | energy generation  | other                 | recupération de l'énergie            | \$recuperation_de_l'energie            |
| environmentally friendly | energy generation  | other                 | recuperer l'énergie                  | \$recuperer_l'energie                  |
| environmentally friendly | energy generation  | other                 | Materiaux de recuperation            | \$Materiaux_de_recuperation            |
| environmentally friendly | energy generation  | other                 | recupération des matériaux           | \$recuperation_des_materiaux           |
| environmentally friendly | energy generation  | other                 | recupération de matériaux            | \$recuperation_de_materiaux            |
| Environmentally friendly | energy consumption | consumption of energy | energie-efficiëntie                  | \$energie-efic                         |
| Environmentally friendly | energy consumption | consumption of energy | energie efficiëntie                  | \$energie_effic                        |
| Environmentally friendly | energy consumption | consumption of energy | energie verbruik                     | \$energie_verbruik                     |
| Environmentally friendly | energy consumption | consumption of energy | energieverbruik                      | \$energieverbruik                      |
| Environmentally friendly | energy consumption | consumption of energy | energie-verbruik                     | \$energie-verbruik                     |
| Environmentally friendly | energy consumption | consumption of energy | energieverbruik                      | \$water-verbruik                       |
| Environmentally friendly | energy consumption | consumption of energy | energieneutraal                      | \$energieneutra                        |
| Environmentally friendly | energy consumption | consumption of energy | energie-efficiëntie                  | \$energiebespa                         |
| Environmentally friendly | energy consumption | consumption of energy | neutre d'énergie                     | \$neutre_d'energie                     |
| Environmentally friendly | energy consumption | consumption of energy | Consommation d'énergie               | \$Consommation_d'energie               |
| Environmentally friendly | energy consumption | consumption of energy | Consommation énergétique             | \$Consommation_energie                 |
| Environmentally friendly | energy consumption | consumption of energy | utilisation rationnelle de l'énergie | \$utilisation_rationnelle_de_l'energie |
| Environmentally friendly | energy consumption | consumption of energy | consommation rationnelle d'énergie   | \$consommation_rationnelle_d'energie   |
| Environmentally friendly | energy consumption | consumption of energy | rendement énergétique                | \$rendement_energie                    |
| Environmentally friendly | energy consumption | consumption of energy | gestion de l'énergie                 | \$gestion_de_l'energie                 |
| Environmentally friendly | energy consumption | consumption of energy | gestion énergétique                  | \$gestion_energie                      |
| Environmentally friendly | energy consumption | consumption of energy | efficacité énergétique               | \$efficacité_energie                   |

|                          |                       |                       |                                       |                                   |
|--------------------------|-----------------------|-----------------------|---------------------------------------|-----------------------------------|
| Environmentally friendly | energy consumption    | consumption of energy | Raréfaction des ressources            | \$Raréfaction_des_ressource       |
| Environmentally friendly | energy consumption    | consumption of water  | Consommation d'eau                    | \$Consommation_d'eau*             |
| Environmentally friendly | energy consumption    | consumption of water  | water-verbruik                        | \$water_verbruik                  |
| Environmentally friendly | energy consumption    | consumption of water  | water verbruik                        | \$waterverbruik                   |
| Environmentally friendly | energy consumption    | consumption of water  | waterverbruik                         | \$energie-effici                  |
| Environmentally friendly | energy consumption    | saving                | energiebesparen                       | \$energiezuinig                   |
| Environmentally friendly | energy consumption    | saving                | energiezuinig                         | \$energie-bespa                   |
| Environmentally friendly | energy consumption    | saving                | energie-management                    | \$energie-manag                   |
| Environmentally friendly | energy consumption    | saving                | energie management                    | \$energie_manag                   |
| Environmentally friendly | energy consumption    | saving                | energiebeheer                         | \$energiebehe                     |
| Environmentally friendly | energy consumption    | saving                | energie-beheer                        | \$energie-behe                    |
| Environmentally friendly | energy consumption    | saving                | energie beheer                        | \$energie_behe                    |
| Environmentally friendly | energy consumption    | saving                | économiser de l'énergie               | \$économiser_de_l'énerg           |
| Environmentally friendly | energy consumption    | saving                | énergétiquement efficace              | \$énergétiquement_efficace        |
| Environmentally friendly | energy consumption    | saving                | économiser de l'énergie               | \$économiser_de_l'éner            |
| Environmentally friendly | energy consumption    | saving                | Économies d'énergie                   | \$Économies_d'énergie             |
| Environmentally friendly | energy consumption    | saving                | certificat de performance énergétique | \$certificat_de_performance_énerg |
| Environmentally friendly | energy consumption    | saving                | CPE                                   | \$CPE*                            |
| Environmentally friendly | energy consumption    | saving                | Contrat de performance énergétique    | \$Contrat_de_performance_énerg    |
| Environmentally friendly | energy consumption    | LED                   | LED lamp                              | \$Led-lamp                        |
| Environmentally friendly | energy consumption    | LED                   | LED lamp                              | \$Led_lamp                        |
| Environmentally friendly | energy consumption    | LED                   | lampe à DEL                           | \$lampe_à_DEL                     |
| Environmentally friendly | energy consumption    | LED                   | lampes à DEL                          | \$lampes_à_DEL                    |
| Environmentally friendly | energy consumption    | LED                   | lampe à LED                           | \$lampe_à_LED                     |
| Environmentally friendly | energy consumption    | LED                   | lampes à LED                          | \$lampes_à_LED                    |
| Environmentally friendly | sustainable energy    | green energy          | groene energie                        | \$groene_energie                  |
| Environmentally friendly | sustainable energy    | green energy          | groene elektriciteit                  | \$groene_elektriciteit            |
| Environmentally friendly | sustainable energy    | green energy          | groene stroom                         | \$groene_stroom                   |
| Environmentally friendly | sustainable energy    | green energy          | électricité verte                     | \$électricité_verte               |
| Environmentally friendly | sustainable energy    | green energy          | energie verte                         | \$energie_verte                   |
| Environmentally friendly | sustainable energy    | sustainable energy    | duurzame energie                      | \$duurzame_energie                |
| Environmentally friendly | sustainable energy    | sustainable energy    | duurzame stroom                       | \$duurzame_stroom                 |
| Environmentally friendly | sustainable energy    | sustainable energy    | duurzame elektriciteit                | \$duurzame_elektriciteit          |
| Environmentally friendly | sustainable energy    | sustainable energy    | les énergies renouvelables            | \$énergies_renouvelable           |
| Environmentally friendly | sustainable energy    | sustainable energy    | energie renouvelable                  | \$énergie_renouvelable            |
| Environmentally friendly | sustainable energy    | sustainable energy    | électricité renouvelable              | \$électricité_renouvelable        |
| Environmentally friendly | sustainable energy    | sustainable energy    | Énergie propre                        | Énergie propre                    |
| Environmentally friendly | sustainable energy    | sustainable energy    | électricité écologique                | \$électricité_écologiq            |
| Environmentally friendly | materials consumption | materials consumption | materiaal verbruik                    | \$materiaalverbruik               |
| Environmentally friendly | materials consumption | materials consumption | materiaal verbruik                    | \$materiaal_verbruik              |
| Environmentally friendly | materials consumption | materials consumption | materialen verbruik                   | \$materialen_verbruik             |
| Environmentally friendly | materials consumption | materials consumption | matererialenverbruik                  | \$materialen_verbruik             |

|                          |                       |                       |  |                               |
|--------------------------|-----------------------|-----------------------|--|-------------------------------|
| Environmentally friendly | materials consumption | materials consumption | Consommation de matières                           | \$Consommation_de_matiere     |
| Environmentally friendly | materials consumption | materials consumption | Consommation de materiel                           | \$Consommation_de_materiel    |
| Environmentally friendly | materials consumption | materials consumption | Consommation de matériaux                          | \$Consommation_de_materiaux   |
| Environmentally friendly | Waste                 | Recycle               | herbruikbaar                                       | \$herbruikba                  |
| Environmentally friendly | Waste                 | Recycle               | afvalvalorisatie                                   | \$afvalvalorisatie            |
| Environmentally friendly | Waste                 | Recycle               | hernieuwbaar                                       | \$hernieuwba                  |
| Environmentally friendly | Waste                 | Recycle               | hergebruiken                                       | \$hergebru                    |
| Environmentally friendly | Waste                 | Recycle               | recyclage  | \$recyclag                    |
| Environmentally friendly | Waste                 | Recycle               | recycle  | \$recycle                     |
| Environmentally friendly | Waste                 | Recycle               | recyclaat  | \$recyclaa                    |
| Environmentally friendly | Waste                 | Recycle               | recyclaten   | \$recyclate                   |
| Environmentally friendly | Waste                 | Recycle               | réutilisable                                       | \$réutilisabl                 |
| Environmentally friendly | Waste                 | Recycle               | réutilisation                                      | \$Recyclage                   |
| Environmentally friendly | Waste                 | Recycle               | Recyclage  | \$Recycla                     |
| Environmentally friendly | Waste                 | Recycle               | recycler   | \$recycle                     |
| Environmentally friendly | Waste                 | Recycle               | produit recyclé                                    | \$produit_recyclé             |
| Environmentally friendly | Waste                 | Recycle               | produits recyclés                                  | \$produits_recyclés           |
| Environmentally friendly | Waste                 | Recycle               | Recyclage  | \$Recyclag                    |
| Environmentally friendly | Waste                 | Recycle               | recycling  | \$recycling                   |
| Environmentally friendly | Waste                 | Extending lifespan    | re-conditioneren                                   | \$re-conditioner              |
| Environmentally friendly | Waste                 | Extending lifespan    | reconditioneren                                    | \$reconditioner               |
| Environmentally friendly | Waste                 | Extending lifespan    | Geprogrammeerde veroudering                        | \$Geprogrammeerde_veroudering |
| Environmentally friendly | Waste                 | Extending lifespan    | Reconditionnement                                  | \$Recondition                 |
| Environmentally friendly | Waste                 | Extending lifespan    | retrofit   | \$retrofit                    |
| Environmentally friendly | Waste                 | Waste separation      | Gescheiden afval                                   | \$gescheiden_afval            |
| Environmentally friendly | Waste                 | Waste separation      | Afvalscheiden                                      | \$Afvalscheid                 |
| Environmentally friendly | Waste                 | Waste separation      | Statiegeld   | \$Statiegeld                  |
| Environmentally friendly | Waste                 | Waste separation      | flux de déchet                                     | \$flux_de_déchet              |
| Environmentally friendly | Waste                 | Waste separation      | séparation des déchets                             | \$séparation_des_déchets      |
| Environmentally friendly | Waste                 | Waste separation      | déchets triés                                      | \$déchets_triés               |
| Environmentally friendly | Waste                 | Waste separation      | tri des déchets                                    | \$tri_des_déchets             |
| Environmentally friendly | Waste                 | Waste separation      | dispositif de consignation                         | \$dispositif_deconsignat      |
| Environmentally friendly | Waste                 | Waste separation      | système de consignation                            | \$système_de_consignat        |
| Environmentally friendly | Waste                 | Waste separation      | systèmes de consigne                               | \$systèmes_de_consigne        |
| Environmentally friendly | Waste                 | Waste separation      | système de consigne                                | \$système_de_consigne         |
| Environmentally friendly | Waste                 | Waste separation      | Terugname afval                                    | \$Terugname_afval             |
| environmentally friendly | waste                 | Quantity of waste     | Navulverpakking                                    | \$Navulverpakk                |
| environmentally friendly | waste                 | Quantity of waste     | Hervulbaar (als bijv. In hervulbare printer toner) | \$Hervulba                    |
| environmentally friendly | waste                 | Quantity of waste     | Composteerbaar                                     | \$Composteerba                |
| environmentally friendly | waste                 | Quantity of waste     | compostable  | \$Compostable                 |

|                          |       |                   |  |                                   |
|--------------------------|-------|-------------------|--|-----------------------------------|
| environmentally friendly | waste | Quantity of waste | Biologisch afbreekbaar                           | \$Biologisch_afbreekba            |
| environmentally friendly | waste | Quantity of waste | Afvalpreventie                                   | \$Afvalprevent                    |
| Environmentally friendly | Waste | Quantity of waste | Leengebruik                                      | \$Leengebruik                     |
| Environmentally friendly | Waste | Quantity of waste | Voedselverspilling                               | \$voedselverspill                 |
| Environmentally friendly | Waste | Quantity of waste | prévention de déchet                             | \$prévention_de_déchet            |
| Environmentally friendly | Waste | Quantity of waste | prévention des déchets                           | \$prévention_des_déchet           |
| Environmentally friendly | Waste | Quantity of waste | gaspillage des denrées alimentaires              | \$gaspillage_des_denrées_alimenta |
| Environmentally friendly | Waste | Quantity of waste | gaspillage alimentaire                           | \$gaspillage_alimentaire          |
| Environmentally friendly | Waste | Quantity of waste | reprise de déchet                                | \$reprise_de_déchet               |
| Environmentally friendly | Waste | Quantity of waste | emballage de la recharge                         | \$emballage_de_la_recharg         |
| Environmentally friendly | Waste | Quantity of waste | rechargeable                                     | \$rechargeabl                     |
| Environmentally friendly | Waste | Quantity of waste | réutilisable                                     | \$réutilisabl                     |
| Environmentally friendly | Waste | Quantity of waste | déchet biodégradable                             | \$déchet_biodégradabl             |
| Environmentally friendly | Waste | Quantity of waste | Functionele economie                             | \$Functionele_economie            |
| Environmentally friendly | Waste | Quantity of waste | économie de la fonctionnalité                    | \$économie_de_la_fonctionnalité   |
| Environmentally friendly | Waste | Quantity of waste | déchets biodégradables                           | \$déchets_biodégradabl            |
| Environmentally friendly | Waste | Approach to waste | Afvalbeheer                                      | \$afvalbeheer                     |
| Environmentally friendly | Waste | Approach to waste | afval beheer                                     | \$afval_beheer                    |
| Environmentally friendly | Waste | Approach to waste | gestion des déchets                              | \$gestion_des_déchet              |
| Environmentally friendly | Waste | Approach to waste | système de gestion de déchets                    | \$système_de_gestion_de_déche     |
| Environmentally friendly | Waste | Approach to waste | système de gestion de ces déchets                | \$système_de_gestion_de_ces_d     |
| Environmentally friendly | Waste | Approach to waste | système de gestion des déchets                   | \$système_de_gestion_des_déch     |
| environmentally friendly | Gases | CO2               | Uitlaatemissie                                   | \$Uitlaatemissie                  |
| environmentally friendly | Gases | CO2               | Koolstofarm                                      | \$Koolstofarm                     |
| environmentally friendly | Gases | CO2               | Koolstofvrij                                     | \$Koolstofvrij                    |
| Environmentally friendly | Gases | CO2               | CO2-uitstoot                                     | \$CO2-uitsto                      |
| Environmentally friendly | Gases | CO2               | CO2-emissie                                      | \$CO2-emis                        |
| Environmentally friendly | Gases | CO2               | CO2-compensatie                                  | \$CO2-compens                     |
| Environmentally friendly | Gases | CO2               | CO2-efficiëntie                                  | \$CO2-efficiënt                   |
| Environmentally friendly | Gases | CO2               | Koolstofdioxide                                  | \$Koolstofdioxid                  |
| Environmentally friendly | Gases | CO2               | Koolstofdioxide                                  | \$Koordioxid                      |
| Environmentally friendly | Gases | CO2               | CO-2 voetafdruk                                  | \$CO-2_Voetafdruk                 |
| Environmentally friendly | Gases | CO2               | transportreductie                                | \$transportreduc                  |
| Environmentally friendly | Gases | CO2               | émission de CO2                                  | \$émission_de_CO2                 |
| Environmentally friendly | Gases | CO2               | émission de dioxyde de carbone                   | \$émission_de_dioxyde_de_carbone  |
| Environmentally friendly | Gases | CO2               | compensation de l'émission de CO2                | \$compensation_de_l'émission_d    |
| Environmentally friendly | Gases | CO2               | compensation de l'émission de dioxyde de carbone | \$compensation_de_l'émission_d    |
| Environmentally friendly | Gases | CO2               | compensation de l'émission de carbone            | \$compensation_de_l'émission_d    |
| Environmentally friendly | Gases | CO2               | efficacité de CO2                                | \$efficacité_en_CO2*              |
| Environmentally friendly | Gases | CO2               | Dioxyde de carbone                               | \$Dioxyde_de_carbon               |

|                          |                         |                 |                                |                              |
|--------------------------|-------------------------|-----------------|--------------------------------|------------------------------|
| Environmentally friendly | Gases                   | CO2             | Empreinte de carbone           | \$Empreinte_carbon           |
| Environmentally friendly | Gases                   | CO2             | Empreinte écologique           | \$Empreinte_écolog           |
| Environmentally friendly | Gases                   | CO2             | Réduction des transports       | \$Réduction_des_transports   |
| Environmentally friendly | Gases                   | CO2             | faible émission de CO2         | \$faible_émission_de_CO2*    |
| Environmentally friendly | Gases                   | CO2             | émissions de gaz d'échappement | \$émissions_de_gaz d'échapp  |
| Environmentally friendly | Gases                   | CO2             | sobre en carbone               | \$sobre_en_carbone           |
| Environmentally friendly | Gases                   | CO2             | décarboniser                   | \$décarbonis                 |
| Environmentally friendly | Gases                   | CO2             | faible émission de carbone     | \$faible_émission_de_carbon  |
| Environmentally friendly | Gases                   | CO2             | faible intensité de carbone    | \$faible_intensité_de_carbon |
| Environmentally friendly | Gases                   | CO2             | CO-2 footprint                 | \$CO-2_footprint             |
| Environmentally friendly | Gases                   | CO2             | CO2 footprint                  | \$CO2_footprint              |
| Environmentally friendly | Gases                   | CO2             | CO2                            | \$CO2                        |
| Environmentally friendly | Gases                   | CO2             | CO-2                           | \$CO-2                       |
| Environmentally friendly | Gases                   | Greenhouse gas  | Broeikasgas                    | \$broeikasgas                |
| Environmentally friendly | Gases                   | Greenhouse gas  | Broeikaseffect                 | \$broeikaseffect             |
| Environmentally friendly | Gases                   | Greenhouse gas  | Ozon                           | \$Ozon                       |
| Environmentally friendly | Gases                   | Greenhouse gas  | Gaz à effet de serre           | \$Gaz_à_effet_de_serre       |
| Environmentally friendly | Gases                   | Greenhouse gas  | effet de serre                 | \$effet_de_serre             |
| Environmentally friendly | Gases                   | Greenhouse gas  | Ozon                           | \$Ozone                      |
| Environmentally friendly | Gases                   | Greenhouse gas  | gaz polluant                   | \$gaz_polluant               |
| Environmentally friendly | Environmental pollution | Air pollution   | Luchtvervuiling                | \$luchtvervuil               |
| Environmentally friendly | Environmental pollution | Air pollution   | Lucht-vervuiling               | \$Lucht-vervuil              |
| Environmentally friendly | Environmental pollution | Air pollution   | Fijnstof                       | \$Fijnstof                   |
| Environmentally friendly | Environmental pollution | Air pollution   | fijn stof                      | \$fijn_stof                  |
| Environmentally friendly | Environmental pollution | Air pollution   | voertuigemissie                | \$voertuigemissie            |
| Environmentally friendly | Environmental pollution | Air pollution   | luchtverontreiniging           | \$luchtverontreinig          |
| Environmentally friendly | Environmental pollution | Air pollution   | PM emissie                     | \$PM_emissie                 |
| Environmentally friendly | Environmental pollution | Air pollution   | Smog                           | \$Smog                       |
| Environmentally friendly | Environmental pollution | Air pollution   | Verzuring                      | \$Verzuring                  |
| environmentally friendly | Environmental pollution | Air pollution   | Luchtkwaliteit                 | \$Luchtkwaliteit             |
| environmentally friendly | Environmental pollution | Air pollution   | Pollution atmosphérique        | \$Pollution_atmosphérique    |
| environmentally friendly | Environmental pollution | Air pollution   | Brouillard de fumée            | \$Brouillard_de_fumée        |
| environmentally friendly | Environmental pollution | Air pollution   | Particules fines               | \$particules_fines*          |
| environmentally friendly | Environmental pollution | Air pollution   | Acidification                  | \$Acidification              |
| environmentally friendly | Environmental pollution | Air pollution   | qualité de l'air               | \$qualité_de_l'air           |
| environmentally friendly | Environmental pollution | Air pollution   | polluants de l'air             | \$polluants_de_l'air         |
| environmentally friendly | Environmental pollution | Air pollution   | pollution de l'air             | \$pollution_de_l'air         |
| Environmentally friendly | Environmental pollution | Water pollution | Waternvervuiling               | \$waternvervuil              |
| Environmentally friendly | Environmental pollution | Water pollution | Water-vervuiling               | \$water-vervuil              |
| Environmentally friendly | Environmental pollution | Water pollution | Eutrofiëring                   | \$Eutrofiër                  |
| Environmentally friendly | Environmental pollution | Water pollution | Pollution des eaux             | \$Pollution_des_eaux         |
| Environmentally friendly | Environmental           | Water pollution | Pollution de l'eau             | \$Pollution_de_l'eau         |

|                          |                         |                 |                                      |  |
|--------------------------|-------------------------|-----------------|--------------------------------------|--|
|                          | pollution               |                 |                                      |  |
| Environmentally friendly | Environmental pollution | Water pollution | Eutrophisation                       | \$Eutrophis                                |
| environmentally friendly | Environmental pollution | Low emissions   | Emissiearm                           | \$Emissiearm                               |
| environmentally friendly | Environmental pollution | Low emissions   | émission faible                      | \$émission_faibl                           |
| environmentally friendly | Environmental pollution | Low emissions   | émission nulle                       | \$émission_nul                             |
| environmentally friendly | Environmental pollution | Noise pollution | Geluidshinder                        | \$Geluidshinder                            |
| environmentally friendly | Environmental pollution | Noise pollution | Geluidsarm                           | \$Geluidsarm                               |
| environmentally friendly | Environmental pollution | Noise pollution | Geluidsemisssie                      | \$Geluidsemisssie                          |
| environmentally friendly | Environmental pollution | Noise pollution | nuisance sonore                      | \$nuisance_sonor                           |
| environmentally friendly | Environmental pollution | Noise pollution | bruit émanant                        | \$bruit_éman                               |
| environmentally friendly | Environmental pollution | Noise pollution | faible niveau de bruit               | \$faible_niveau_de_bruit                   |
| environmentally friendly | Environmental pollution | Noise pollution | émission sonore                      | \$émission_sonor                           |
| environmentally friendly | Environmental pollution | Noise pollution | Pollution sonore                     | \$Pollution_sonor                          |
| environmentally friendly | Environmental pollution | Noise pollution | émissions sonores                    | \$émissions_sonor                          |
| environmentally friendly | Environmental pollution | Odour pollution | Geurhinder                           | \$Geurhinder                               |
| environmentally friendly | Environmental pollution | Odour pollution | Geurvervuiling                       | \$Geurvervuil                              |
| environmentally friendly | Environmental pollution | Odour pollution | Geur-vervuiling                      | \$Geur-vervuil                             |
| environmentally friendly | Environmental pollution | Odour pollution | nuisances olfactives                 | \$nuisances_olfactive                      |
| environmentally friendly | Environmental pollution | Odour pollution | nuisance olfactive                   | \$nuisance_olfactive                       |
| environmentally friendly | Environmental pollution | Odour pollution | Pollution olfactive                  | \$pollution_olfactive                      |
| environmentally friendly | Environmental pollution | Light pollution | Lichtbeheerssysteem                  | \$Lichtbeheerssyste                        |
| environmentally friendly | Environmental pollution | Light pollution | Lichtvervuiling                      | \$Lichtvervuil                             |
| environmentally friendly | Environmental pollution | Light pollution | Licht-vervuiling                     | \$Licht-vervuil                            |
| environmentally friendly | Environmental pollution | Light pollution | Lichthinder                          | \$Lichthinder                              |
| environmentally friendly | Environmental pollution | Light pollution | régulation de l'éclairage            | \$régulation_de_l'éclair                   |
| environmentally friendly | Environmental pollution | Light pollution | gestion de l'éclairage               | \$gestion_de_l'éclair                      |
| environmentally friendly | Environmental pollution | Light pollution | nuisances lumineuses                 | \$nuisances_lumineuses                     |
| environmentally friendly | Environmental pollution | Light pollution | nuisance lumineuse                   | \$nuisance_lumineuse                       |
| environmentally friendly | Environmental pollution | Light pollution | pollution lumineuse                  | \$pollution_lumin                          |
| Environmentally friendly | Food                    | Animal friendly | Diervriendelijk                      | \$Diervriendelijk                          |
| Environmentally friendly | Food                    | Animal friendly | Proefdiervrij                        | \$Proefdiervrij                            |
| environmentally friendly | Food                    | Animal friendly | Dierenleed                           | \$dierenleed                               |
| environmentally friendly | Food                    | Animal friendly | Dierproefvrij                        | \$Dierproefvrij                            |
| environmentally friendly | Food                    | Animal friendly | Dierenwelzijn                        | \$dierenwelzijn                            |
| environmentally friendly | Food                    | Animal friendly | respectueux du bien-être des animaux | \$respectueux_du_bien-<br>être_des_animaux |
| environmentally friendly | Food                    | Animal friendly | Respectueux des animaux              | \$Respectueux_des_animaux                  |
| environmentally friendly | Food                    | Animal friendly | souffrance animale                   | \$souffrance_anima                         |
| environmentally friendly | Food                    | Animal friendly | détresse pour les animaux            | \$détresse_pour_les_animaux                |

|                          |      |                        |   |   |
|--------------------------|------|------------------------|---|---|
| environmentally friendly | Food | Animal friendly        | souffrance des animaux                      | \$souffrance_des_anima                        |
| environmentally friendly | Food | Animal friendly        | bien-être des animaux                       | \$bien-être_des_anima                         |
| environmentally friendly | Food | Animal friendly        | bien être animal                            | \$bien_être_anima                             |
| environmentally friendly | Food | Animal friendly        | bien-être animal                            | \$bien-être_anima                             |
| environmentally friendly | Food | Animal friendly        | testé sur des animaux                       | \$testé_sur_des_animaux                       |
| environmentally friendly | Food | Animal friendly        | méthode d'essai non réalisé sur des animaux | \$méthode_d_essai_non_réalisé_sur_des_animaux |
| environmentally friendly | Food | Animal friendly        | Expérimentation non-animales                | \$Expérimentation_non_anima                   |
| environmentally friendly | Food | Animal friendly        | Expérimentation non animales                | \$Expérimentation_non_animale                 |
| environmentally friendly | Food | Animal friendly        | Sans expérimentation animale                | Sans_expérimentation_animale                  |
| environmentally friendly | Food | Animal friendly        | d'expérimentations non animales             | \$d'expérimentations_non_animale              |
| Environmentally friendly | Food | Conditions for animals | Scharrelei                                  | \$Scharrelei                                  |
| Environmentally friendly | Food | Conditions for animals | Scharrelvlees                               | \$Scharrelvlees                               |
| Environmentally friendly | Food | Conditions for animals | Scharrelkip                                 | \$Scharrelkip                                 |
| Environmentally friendly | Food | Conditions for animals | Scharrelkip                                 | \$Scharreldier                                |
| Environmentally friendly | Food | Conditions for animals | Scharrelvarken                              | \$Scharrelvarken                              |
| Environmentally friendly | Food | Conditions for animals | Scharrelkoe                                 | \$Scharrelkoe                                 |
| Environmentally friendly | Food | Conditions for animals | vrije-uitloop                               | \$Vrije-uitloop                               |
| Environmentally friendly | Food | Conditions for animals | vrije uitloop                               | \$vrije_uitloop                               |
| Environmentally friendly | Food | Conditions for animals | Vleeswijzer                                 | \$Vleeswijzer                                 |
| Environmentally friendly | Food | Conditions for animals | L'Élevage Respectueux                       | \$L'Élevage_respectueux                       |
| Environmentally friendly | Food | Conditions for animals | élevage plus respectueux                    | \$élevage_plus_respectueux                    |
| Environmentally friendly | Food | Conditions for animals | œuf de poules élevées en plein air          | \$œuf_de_poules_élevées_en_plein_air          |
| Environmentally friendly | Food | Conditions for animals | œuf de poules élevées au sol                | \$œuf_de_poules_élevées_au_sol                |
| Environmentally friendly | Food | Conditions for animals | viande fermière                             | \$viande_fermier                              |
| Environmentally friendly | Food | Conditions for animals | Poulet fermier                              | \$Poulet_fermier                              |
| Environmentally friendly | Food | Conditions for animals | étiquetage de viande                        | \$étiquetage_de_v viande                      |
| Environmentally friendly | Food | Conditions for animals | Pondeuses plein air                         | \$Pondeuses_plein_air                         |
| Environmentally friendly | Food | Conditions for animals | élevés en plein air                         | \$élevés_en_plein_air                         |
| Environmentally friendly | Food | Conditions for animals | élevages en plein air                       | \$élevages_en_plein_air                       |
| Environmentally friendly | Food | Vegetarian             | Vegetarisch                                 | \$Vegetar                                     |
| Environmentally friendly | Food | Vegetarian             | Vleesvervanger                              | \$Vleesvervang                                |
| Environmentally friendly | Food | Vegetarian             | Melkvervanger                               | \$melkvervanger                               |
| Environmentally friendly | Food | Vegetarian             | Kaasvervanger                               | \$kaasvervanger                               |
| Environmentally friendly | Food | Vegetarian             | Zuivelvervanger                             | \$Zuivelvervang                               |
| Environmentally friendly | Food | Vegetarian             | Veganistisch                                | \$Veganist                                    |
| Environmentally friendly | Food | Vegetarian             | Dagen Zonder Vlees                          | \$Dagen_Zonder_Vlees*                         |
| Environmentally friendly | Food | Vegetarian             | Jours Sans Viande                           | \$Jours_Sans_Viande*                          |
| Environmentally friendly | Food | Vegetarian             | végétarien                                  | \$végétar                                     |
| Environmentally friendly | Food | Vegetarian             | Substituts du viande                        | \$Substituts_du_v viande                      |
| Environmentally friendly | Food | Vegetarian             | Substitut de viande                         | \$Substitut_de_v viande                       |
| Environmentally friendly | Food | Vegetarian             | substituts à la viande                      | \$substituts_à_la_v viande                    |

|                          |                           |                            |                            |                              |
|--------------------------|---------------------------|----------------------------|----------------------------|------------------------------|
| Environmentally friendly | Food                      | Vegetarian                 | substitut du lait          | \$Substituts_du_lait         |
| Environmentally friendly | Food                      | Vegetarian                 | substitut du lait          | \$substitut_du_lait          |
| Environmentally friendly | Food                      | Vegetarian                 | végétalien                 | \$végétali                   |
| Environmentally friendly | Food                      | organic food & agriculture | Biologisch                 | \$Bio                        |
| Environmentally friendly | Food                      | organic food & agriculture | Bioproduct                 | \$Bioproduct                 |
| Environmentally friendly | Food                      | organic food & agriculture | Bio-product                | \$Bio-product                |
| Environmentally friendly | Food                      | organic food & agriculture | Biologisch                 | \$biologisch                 |
| Environmentally friendly | Food                      | organic food & agriculture | Bio-vlees                  | \$Bio-vlees                  |
| Environmentally friendly | Food                      | organic food & agriculture | Bio-ei                     | \$Bio-ei                     |
| Environmentally friendly | Food                      | organic food & agriculture | Biologische eieren         | \$Biologische_eieren         |
| Environmentally friendly | Food                      | organic food & agriculture | Biologische melk           | \$Biologische_melk           |
| Environmentally friendly | Food                      | organic food & agriculture | Organic                    | \$Organic                    |
| Environmentally friendly | Food                      | organic food & agriculture | Organisch                  | \$Organisch                  |
| Environmentally friendly | Food                      | organic food & agriculture | Produit biologique         | \$Produit_biologi            |
| Environmentally friendly | Food                      | organic food & agriculture | Lait bio                   | \$Lait_bio                   |
| Environmentally friendly | Food                      | organic food & agriculture | Produit bio                | \$Produit_bio                |
| Environmentally friendly | Food                      | organic food & agriculture | Biologique                 | \$Biologique                 |
| Environmentally friendly | Food                      | organic food & agriculture | oeuf biologique            | \$oeuf_biologique            |
| Environmentally friendly | Food                      | organic food & agriculture | Oeuf bio                   | \$Oeuf_bio                   |
| Environmentally friendly | Food                      | organic food & agriculture | viande biologique          | \$viande_biolo               |
| Environmentally friendly | Food                      | organic food & agriculture | Organique                  | \$Organique                  |
| Environmentally friendly | Food                      | organic food & agriculture | Biodynamisch               | \$Biodynamisch               |
| Environmentally friendly | Food                      | organic food & agriculture | L'agriculture biodynamique | \$L'agriculture_biodynamique |
| Environmentally friendly | Food                      | organic food & agriculture | Biodynamique               | \$Biodynamique               |
| Environmentally friendly | Food                      | organic food & agriculture | Bio-dynamique              | \$Bio-dynamique              |
| Environmentally friendly | Food                      | organic food & agriculture | biodynamie                 | \$biodynamie                 |
| Environmentally friendly | Food                      | organic food & agriculture | Bioveelteelt               | \$Bioveelteelt               |
| Environmentally friendly | Food                      | organic food & agriculture | Agro-ecologie              | \$Agro-ecologi               |
| Environmentally friendly | Food                      | organic food & agriculture | agroécologie               | \$agroécologi                |
| environmentally friendly | Sustainable raw materials | Biogas                     | Bio-gas                    | \$Bio-gas                    |
| environmentally friendly | Sustainable raw materials | Biogas                     | Biogas                     | \$Biogas                     |
| environmentally friendly | Sustainable raw materials | Biogas                     | Stortgas                   | \$Stortgas                   |
| environmentally friendly | Sustainable raw materials | Biogas                     | Stortgas                   | \$Stort-gas                  |
| environmentally friendly | Sustainable raw materials | Biogas                     | Waterzuiveringsgas         | \$Waterzuiveringsgas         |
| environmentally friendly | Sustainable raw materials | Biogas                     | Waterzuiveringsgas         | \$Waterzuivering-gas         |
| environmentally friendly | Sustainable raw materials | Biogas                     | Biogaz                     | \$Biogaz                     |
| environmentally friendly | Sustainable raw materials | Biogas                     | Bio-gaz                    | \$Bio-gaz                    |

|                          |                           |                         |  |  |
|--------------------------|---------------------------|-------------------------|--|--|
|                          | materials                 |                         |  |  |
| environmentally friendly | Sustainable raw materials | Biogas                  | gaz de décharge                          | \$gaz_de_décharg                         |
| Environmentally friendly | Sustainable raw materials | Secondary raw materials | secundair materiaal                      | \$secundair_materia                      |
| Environmentally friendly | Sustainable raw materials | Secondary raw materials | secondaire grondstof                     | \$secondaire_grondstof                   |
| Environmentally friendly | Sustainable raw materials | Secondary raw materials | Matériau secondaire                      | \$Matériau_secondair                     |
| Environmentally friendly | Sustainable raw materials | Secondary raw materials | matériaux secondaires                    | \$Matériaux_secondair                    |
| Environmentally friendly | Sustainable raw materials | Secondary raw materials | Matières premières secondaires           | \$Matières_premières_secondai            |
| environmentally friendly | General                   | Sustainable             | Maatschappelijk verantwoord              | \$Maatschappelijk_verantwoord            |
| environmentally friendly | General                   | Sustainable             | Maatschappelijke verantwoord             | \$Maatschappelijke_verantwoord           |
| environmentally friendly | General                   | Sustainable             | MVO                                      | \$MVO*                                   |
| environmentally friendly | General                   | Sustainable             | Duurzame ontwikkeling                    | \$Duurzame_ontwikkel                     |
| environmentally friendly | General                   | Sustainable             | Duurzame productie                       | \$Duurzame_product                       |
| environmentally friendly | General                   | Sustainable             | Duurzame keten                           | \$Duurzame_keten                         |
| environmentally friendly | General                   | Sustainable             | duurzaam ketenbeheer                     | \$duurzaam_ketenbeheer                   |
| Environmentally friendly | General                   | Sustainable             | Duurzaamheid                             | \$Duurzaamheid                           |
| Environmentally friendly | General                   | Sustainable             | Durable                                  | \$Durable                                |
| Environmentally friendly | General                   | Sustainable             | Développement durable                    | \$Développement_durable                  |
| Environmentally friendly | General                   | Sustainable             | préoccupation social                     | \$préoccupation_social                   |
| Environmentally friendly | General                   | Sustainable             | responsabilité sociale                   | \$responsabilité_sociale                 |
| Environmentally friendly | General                   | Sustainable             | Responsabilité sociétale des entreprises | \$responsabilité_societal_des_entreprise |
| Environmentally friendly | General                   | Sustainable             | RSE                                      | \$RSE*                                   |
| Environmentally friendly | General                   | Sustainable             | production durable                       | \$production_durable                     |
| Environmentally friendly | General                   | Sustainable             | Gids voor duurzame aankopen              | \$gids_voor_duurzame_aankopen            |
| Environmentally friendly | General                   | Sustainable             | Gids voor duurzame aankopen              | \$gidedesachatsdurables                  |
| Environmentally friendly | General                   | Sustainable             | Gids voor duurzame aankopen              | \$gidsvoorduurzameaankopen               |
| Environmentally friendly | General                   | Sustainable             | Gids voor duurzame aankopen              | \$guide_des_achats_durables              |
| Environmentally friendly | General                   | Sustainable             | Duurzaam                                 | \$Duurza                                 |
| Environmentally friendly | General                   | Sustainable             | Duurzame aankopen                        | \$Duurzame_aankopen                      |
| Environmentally friendly | General                   | Sustainable             | Duurzaam inkopen                         | \$Duurzaam_inkopen                       |
| Environmentally friendly | General                   | Sustainable             | Green public procurement                 | \$Green_public_procurement               |
| Environmentally friendly | General                   | Sustainable             | Klimaatneutraal                          | \$Klimaatneutra                          |
| Environmentally friendly | General                   | Sustainable             | climaticquement neutres                  | \$climaticquement_neutre                 |
| Environmentally friendly | General                   | Sustainable             | chaînes logistique durables              | \$chaînes_logistique_durable             |
| Environmentally friendly | General                   | Sustainable             | chaîne logistique durable                | \$chaîne_logistique_durable              |
| Environmentally friendly | General                   | Sustainable             | chaîne d'approvisionnement durable       | \$chaîne_d'approvisionnement_durable     |
| Environmentally friendly | General                   | Sustainable             | chaînes d'approvisionnement durable      | \$chaînes_d'approvisionnement_durable    |
| Environmentally friendly | General                   | Ecological              | Ecologisch                               | \$Ecologi                                |
| Environmentally friendly | General                   | Ecological              | Eco-design                               | \$Eco-design                             |
| Environmentally friendly | General                   | Ecological              | Ecodesign                                | \$Ecodesign                              |
| Environmentally friendly | General                   | Ecological              | Eco-efficiënt                            | \$Eco-efficiënt                          |
| environmentally friendly | General                   | Ecological              | Ecologische voetafdruk                   | \$Ecologische_voetafdruk                 |
| environmentally friendly | General                   | Ecological              | Ecosysteem                               | \$Ecosyste                               |
| environmentally friendly | General                   | Ecological              | Eco-systeem                              | \$Eco-syste                              |
| environmentally friendly | General                   | Ecological              | Eco-toxisch                              | \$eco-toxisch                            |
| environmentally friendly | General                   | Ecological              | Ecotoxisch                               | \$Ecotoxisch                             |
| environmentally friendly | General                   | Ecological              | écologique                               | \$écologique                             |

|                          |         |                          |                               |                                 |
|--------------------------|---------|--------------------------|-------------------------------|---------------------------------|
| environmentally friendly | General | Ecological               | Design écologique             | \$Design_écologique             |
| environmentally friendly | General | Ecological               | éco-conception                | \$éco-conception                |
| environmentally friendly | General | Ecological               | Empreinte écologique          | \$Empreinte_écologique          |
| environmentally friendly | General | Ecological               | éco-efficacité                | \$éco-efficaci                  |
| environmentally friendly | General | Ecological               | écosystème                    | \$écosystème                    |
| environmentally friendly | General | Ecological               | écotoxique                    | \$écotoxi                       |
| Environmentally friendly | General | Environmentally friendly | Milieuvriendelijk             | \$Milieuvriendelijk             |
| Environmentally friendly | General | Environmentally friendly | Milieubescherming             | \$Milieubescherm                |
| Environmentally friendly | General | Environmentally friendly | Milieueffect                  | \$Milieueffect                  |
| Environmentally friendly | General | Environmentally friendly | Milieu-effect                 | \$Milieu-effect                 |
| Environmentally friendly | General | Environmentally friendly | Milieudiversiteit             | \$Milieudiversiteit             |
| Environmentally friendly | General | Environmentally friendly | Milieu-diversiteit            | \$Milieu-diversiteit            |
| Environmentally friendly | General | Environmentally friendly | durable pour l'environnement  | \$durable_pour_l'environnement  |
| Environmentally friendly | General | Environmentally friendly | protection de l'environnement | \$protection_de_l'environnement |
| Environmentally friendly | General | Environmentally friendly | impact environnemental        | \$impact_environnement          |
| Environmentally friendly | General | Environmentally friendly | diversité environnementale    | \$diversité_environnement       |
| Environmentally friendly | General | Biodiversity             | Bio-diversiteit               | \$Bio-diversiteit*              |
| Environmentally friendly | General | Biodiversity             | Biodivers                     | \$Biodivers                     |
| Environmentally friendly | General | Biodiversity             | Biodiversiteit                | \$Biodiversiteit                |
| Environmentally friendly | General | Biodiversity             | biodiversité                  | \$biodiversité                  |
| Environmentally friendly | General | Biodiversity             | biodivers                     | \$biodivers                     |
| Environmentally friendly | General | Biodiversity             | Exoot                         | \$exoot                         |
| Environmentally friendly | General | Biodiversity             | exoten                        | \$exoten                        |
| Environmentally friendly | General | Biodiversity             | des espèces non indigènes     | \$espèces_non_indigènes         |
| Environmentally friendly | General | Biodiversity             | espèces exotiques             | \$espèces_exotiqu               |
| Environmentally friendly | General | environmental label      | Milieukeurmerk                | \$Milieukeurmerk                |
| Environmentally friendly | General | environmental label      | écokeurmerk                   | \$écolabel                      |
| Environmentally friendly | General | environmental label      | Ecolabel                      | \$Ecolabel                      |
| Environmentally friendly | General | environmental label      | Eco-label                     | \$Eco-label                     |
| environmentally friendly | General | environmental label      | Milieulabel                   | \$Milieulabel                   |
| environmentally friendly | General | environmental label      | Milieukeur                    | \$Milieukeur                    |
| environmentally friendly | General | environmental label      | label écologique              | \$label_écologi                 |
| environmentally friendly | General | environmental label      | marque de salubrité           | \$marque_de_salubrit            |
| environmentally friendly | General | environmental label      | marque_écologique             | \$marque_écologi                |
| environmentally friendly | General | Sustainable approach     | critère écologique            | \$critère_écologi               |
| Environmentally friendly | General | Sustainable approach     | Milieuproductverklaring       | \$Milieuproductverklaring       |
| Environmentally friendly | General | Sustainable approach     | Milieucriteria                | \$Milieucriteri                 |
| Environmentally friendly | General | Sustainable approach     | GPP-toolkit                   | \$GPP-toolkit                   |
| Environmentally friendly | General | Sustainable approach     | Milieukoopwijzer              | \$Milieukoopwijzer              |
| Environmentally friendly | General | Sustainable approach     | duurzame overheidsopdrachten  | \$duurzame_overheidsopdrachten  |

|                          |         |                      |   |   |
|--------------------------|---------|----------------------|---|---|
| Environmentally friendly | General | Sustainable approach | duurzame overheidsopdrachten-fiches         | \$duurzame_overheidsopdrachten-fiche          |
| Environmentally friendly | General | Sustainable approach | Milieu managementsysteem                    | \$Milieu managementsysteem                    |
| environmentally friendly | General | Sustainable approach | Milieubeheer                                | \$Milieubeheer                                |
| environmentally friendly | General | Sustainable approach | Milieueis                                   | \$Milieueis                                   |
| environmentally friendly | General | Sustainable approach | Milieukost                                  | \$Milieukost                                  |
| environmentally friendly | General | Sustainable approach | Milieukwaliteit                             | \$Milieukwaliteit                             |
| environmentally friendly | General | Sustainable approach | Milieuprestatie                             | \$Milieuprestatie                             |
| environmentally friendly | General | Sustainable approach | Milieutechnologie                           | \$Milieutechnologie                           |
| environmentally friendly | General | Sustainable approach | Milieubeheer                                | \$Milieu-beheer                               |
| environmentally friendly | General | Sustainable approach | Milieueis                                   | \$Milieu-eis                                  |
| environmentally friendly | General | Sustainable approach | Milieukost                                  | \$Milieu-kost                                 |
| environmentally friendly | General | Sustainable approach | Milieukwaliteit                             | \$Milieu-kwaliteit                            |
| environmentally friendly | General | Sustainable approach | en matière d'environnement                  | \$Milieuzorg                                  |
| environmentally friendly | General | Sustainable approach | Milieuprestatie                             | \$Milieu-prestatie                            |
| environmentally friendly | General | Sustainable approach | Maatschappelijk Verantwoord Ondernemen      | \$Maatschappelijk_Verantwoord_Ondernemen*     |
| environmentally friendly | General | Sustainable approach | Milieutechnologie                           | \$Milieu-technologie                          |
| environmentally friendly | General | Sustainable approach | duurzaamheidsstrategie                      | \$duurzaamheidsstrategie                      |
| environmentally friendly | General | Sustainable approach | système de gestion environnementale         | \$système_de_gestion_environment              |
| environmentally friendly | General | Sustainable approach | système de management environnemental       | \$système_de_management_environment           |
| environmentally friendly | General | Sustainable approach | en matière d'environnement                  | \$en_matière_d'environnement                  |
| environmentally friendly | General | Sustainable approach | de l'environnement                          | \$de_l'environnement                          |
| environmentally friendly | General | Sustainable approach | exigence environnemental                    | \$exigence_environment                        |
| environmentally friendly | General | Sustainable approach | règle environnemental                       | \$règle_environment                           |
| environmentally friendly | General | Sustainable approach | coûts environnementaux                      | \$coûts_environment                           |
| environmentally friendly | General | Sustainable approach | coût environnemental                        | \$coût_environment                            |
| environmentally friendly | General | Sustainable approach | qualité environnementale                    | \$qualité_environment                         |
| environmentally friendly | General | Sustainable approach | qualité de l'environnement                  | \$qualité_de_l'environnement                  |
| environmentally friendly | General | Sustainable approach | performance environnementale                | \$performance_environment                     |
| environmentally friendly | General | Sustainable approach | technologie respectueuse de l'environnement | \$technologie_respectueuse_de_l'environnement |
| environmentally friendly | General | Sustainable approach | écotechnologie                              | \$écotechnologie                              |
| environmentally friendly | General | Sustainable approach | green deal                                  | \$green_deal                                  |
| environmentally friendly | General | Sustainable approach | stratégie de développement durable          | \$stratégie_de_développement_durable          |
| environmentally friendly | General | Climate change       | Opwarming aarde                             | \$opwarming_aarde                             |
| environmentally friendly | General | Climate change       | Opwarming van de aarde                      | \$opwarming_van_de_aarde                      |
| environmentally friendly | General | Climate change       | klimaatopwarming                            | \$klimaatopwarming                            |
| environmentally friendly | General | Climate change       | réchauffement planétaire                    | \$réchauffement_planétaire                    |
| environmentally friendly | General | Climate change       | réchauffement climatique                    | \$réchauffement_climatique                    |

|                          |           |                                |                                    |                                      |
|--------------------------|-----------|--------------------------------|------------------------------------|--------------------------------------|
| environmentally friendly | General   | Climate change                 | klimaatverandering                 | \$klimaatverandering                 |
| environmentally friendly | General   | Climate change                 | changement climatique              | \$changement_climatique              |
| environmentally friendly | General   | Climate change                 | dérèglement climatique             | \$dérèglement_climatique             |
| environmentally friendly | General   | Climate change                 | réchauffement global               | \$réchauffemen_global                |
| environmentally friendly | Water     | Water quality                  | Waterkwaliteit                     | \$Waterkwaliteit                     |
| environmentally friendly | Water     | Water quality                  | gestion efficace de l'eau          | \$gestion_efficace_de_l'eau          |
| environmentally friendly | Water     | Water quality                  | qualité de l'eau                   | \$qualité_de_l'eau                   |
| environmentally friendly | Water     | Water quality                  | qualité des eaux                   | \$qualité_des_eaux_                  |
| environmentally friendly | Water     | Water quality                  | qualités des eaux                  | \$qualités_des_eaux                  |
| environmentally friendly | Water     | Water saving                   | réduction de la consommation d'eau | \$réduction de la consommation_d'eau |
| environmentally friendly | Water     | Water saving                   | Economie de l'eau                  | \$Economie_de_l'eau                  |
| environmentally friendly | Water     | Water saving                   | Waterefficiënt                     | \$Waterefficiënt                     |
| environmentally friendly | Water     | Water saving                   | Waterbesparing                     | \$Waterbespar                        |
| environmentally friendly | Water     | rainwater collection           | regenwateropvang                   | \$Regenwateropvang                   |
| environmentally friendly | Water     | rainwater collection           | regenwater opvangsysteem           | \$regenwater_opvangsysteem           |
| environmentally friendly | Water     | rainwater collection           | regenwater recuperatie             | \$regenwater_recuperatie             |
| environmentally friendly | Water     | rainwater collection           | regenwaterrecuperatie              | \$regenwaterrecuperatie              |
| environmentally friendly | Water     | rainwater collection           | regenwater-recuperatie             | \$regenwater-recuperatie             |
| environmentally friendly | Water     | rainwater collection           | recolter l'eau de pluie            | \$recolter_l'eau_de_pluie_           |
| environmentally friendly | Water     | rainwater collection           | récupérateurs d'eau de pluie       | \$récupérateurs_d'eau_de_pluie       |
| environmentally friendly | Water     | rainwater collection           | Récupérer l'eau de pluie           | Récupérer_l'eau_de_pluie             |
| environmentally friendly | Water     | rainwater collection           | \$récupérateur d'eau de pluie      | \$récupérateur_d'eau_de_pluie        |
| environmentally friendly | Forests   | Forests                        | Tropische bossen                   | \$Tropische_bossen                   |
| environmentally friendly | Forests   | Forests                        | Tropisch bos                       | \$Tropisch_bos                       |
| environmentally friendly | Forests   | Forests                        | Oerbos                             | \$Oerbos                             |
| environmentally friendly | Forests   | Forests                        | forêts tropicales                  | \$forêts_tropicales                  |
| environmentally friendly | Forests   | Forests                        | forêt tropicale                    | \$forêt_tropical                     |
| environmentally friendly | Forests   | Forests                        | forêt primaire                     | \$forêt_primair                      |
| environmentally friendly | Forests   | Forests                        | forêt originelle                   | \$forêt_origin                       |
| environmentally friendly | Forests   | Sustainable forests            | Illegale houtkap                   | \$Illegale_houtkap                   |
| environmentally friendly | Forests   | Sustainable forests            | Duurzaam bosbeheer                 | \$Duurzaam_bosbeheer                 |
| environmentally friendly | Forests   | Sustainable forests            | duurzame bossen                    | \$duurzame_bossen                    |
| environmentally friendly | Forests   | Sustainable forests            | duurzaam beheerde bossen           | \$duurzaam_beheerde_bossen           |
| environmentally friendly | Forests   | Sustainable forests            | exploitation illégale des forêts   | \$exploitation illégale des_forêt    |
| environmentally friendly | Forests   | Sustainable forests            | gestion durable des forêts         | \$gestion_durable_des_forêt          |
| environmentally friendly | Forests   | Sustainable forests            | Exploitation forestière durable    | \$Exploitation_forestièrè_durable    |
| environmentally friendly | Forests   | Sustainable forests            | gestion forestière durable         | \$gestion_foresteièrè_durable        |
| environmentally friendly | Forests   | Sustainable forests            | FLEGT                              | \$FLEGT                              |
| environmentally friendly | Transport | Sustainable means of transport | hybride auto                       | \$hybride_auto                       |
| environmentally friendly | Transport | Sustainable means of transport | hybride wagens                     | \$hybride_wagen                      |

|                          |           |                                |                             |                               |
|--------------------------|-----------|--------------------------------|-----------------------------|-------------------------------|
| environmentally friendly | Transport | Sustainable means of transport | elektrische auto            | \$elektrische_auto            |
| environmentally friendly | Transport | Sustainable means of transport | elektrische wagens          | \$elektrische_wagen           |
| environmentally friendly | Transport | Sustainable means of transport | voiture hybride             | \$voiture_hybride             |
| environmentally friendly | Transport | Sustainable means of transport | automobile hybride          | \$automobile_hybride          |
| environmentally friendly | Transport | Sustainable means of transport | véhicule hybride            | \$véhicule_hybride            |
| environmentally friendly | Transport | Sustainable means of transport | voiture électrique          | \$automobile_electrique       |
| environmentally friendly | Transport | Sustainable means of transport | fiets                       | \$fiets                       |
| environmentally friendly | Transport | Sustainable means of transport | elektrische fiets           | \$elektrische_fiets           |
| environmentally friendly | Transport | Sustainable means of transport | e-bike                      | \$e-bike                      |
| environmentally friendly | Transport | Sustainable means of transport | vélo électrique             | \$vélo_électrique             |
| environmentally friendly | Transport | Sustainable means of transport | vélo                        | \$vélo                        |
| environmentally friendly | Transport | Sustainable means of transport | voiture électrique          | \$voiture_électrique          |
| environmentally friendly | Transport | Car pooling                    | Carpooling                  | \$Carpool                     |
| environmentally friendly | Transport | Car pooling                    | co-voiturage                | \$co-voiturag                 |
| environmentally friendly | Transport | Car pooling                    | Covoiturage                 | \$Covoiturag                  |
| environmentally friendly | Transport | Sustainable transport approach | Duurzame vervoersmethode    | \$Duurzame_vervoersmethode    |
| environmentally friendly | Transport | Sustainable transport approach | Duurzame vervoerswijze      | \$Duurzame_vervoerswijze      |
| environmentally friendly | Transport | Sustainable transport approach | Vervoersplan                | \$Vervoersplan                |
| environmentally friendly | Transport | Sustainable transport approach | Mobiliteitsplan             | \$mobiliteitsplan             |
| environmentally friendly | Transport | Sustainable transport approach | transportplan               | \$transportplan               |
| environmentally friendly | Transport | Sustainable transport approach | plan de mobilité            | \$plan_de_mobilite            |
| environmentally friendly | Transport | Sustainable transport approach | plan de transport           | \$plan_de_transport           |
| environmentally friendly | Transport | Sustainable transport approach | mobiliteitsafdruk           | \$mobiliteitsafdruk           |
| environmentally friendly | Transport | Sustainable transport approach | duurzaam transport          | \$duurzaam_transport          |
| environmentally friendly | Transport | Sustainable transport approach | duurzaam vervoer            | \$duurzaam_vervoer            |
| environmentally friendly | Transport | Sustainable transport approach | milieuvriendelijk transport | \$milieuvriendelijk_transport |
| environmentally friendly | Transport | Sustainable transport approach | milieuvriendelijk vervoer   | \$milieuvriendelijk_vervoer   |

|                          |                      |                       |                                   |                                     |
|--------------------------|----------------------|-----------------------|-----------------------------------|-------------------------------------|
|                          |                      | transport             |                                   |                                     |
| environmentally friendly | Transport            | Sustainable transport | mode de transport durable         | \$mode_de_transport_durable         |
| environmentally friendly | Transport            | Sustainable transport | transport durables                | \$transport_durable                 |
| environmentally friendly | Transport            | Sustainable transport | moyen de transport durable        | \$moyen_de_transport_durable        |
| environmentally friendly | Transport            | Sustainable transport | transports durables               | \$transports_durables               |
| environmentally friendly | Transport            | Sustainable transport | Modes de déplacements respectueux | \$Modes_de_déplacements_respectueux |
| environmentally friendly | Transport            | Sustainable transport | duurzame transport                | \$duurzame_transport                |
| environmentally friendly | Transport            | Sustainable transport | milieuvriendelijke transport      | \$milieuvriendelijke_transport      |
| environmentally friendly | Hazardous substances | Hazardous substances  | Chloorgebleekt                    | \$Chloorgebleekt                    |
| environmentally friendly | Hazardous substances | Hazardous substances  | Chloorvrij                        | \$Chloorvrij                        |
| environmentally friendly | Hazardous substances | Hazardous substances  | Pesticide                         | \$Pesticide                         |
| environmentally friendly | Hazardous substances | Hazardous substances  | Biocide                           | \$Biocide                           |
| environmentally friendly | Hazardous substances | Hazardous substances  | Toxisch / toxische stof           | \$Toxisch                           |
| environmentally friendly | Hazardous substances | Hazardous substances  | Gevaarlijke stof                  | \$Gevaarlijke_stof                  |
| environmentally friendly | Hazardous substances | Hazardous substances  | blanchi au chlore                 | \$blanchi_au_chlore                 |
| environmentally friendly | Hazardous substances | Hazardous substances  | blanchie au chlore                | \$blanchie_au_chlore                |
| environmentally friendly | Hazardous substances | Hazardous substances  | non chloré                        | \$non_chloré                        |
| environmentally friendly | Hazardous substances | Hazardous substances  | sans chlore                       | \$sans_chlore                       |
| environmentally friendly | Hazardous substances | Hazardous substances  | saisonnaire                       | \$saisonnaire                       |
| environmentally friendly | Hazardous substances | Hazardous substances  | substance toxique                 | \$substance_toxique                 |
| environmentally friendly | Hazardous substances | Hazardous substances  | substance dangereuse              | \$substance_dangereuse              |
| environmentally friendly | Soil                 | Soil quality          | Bodemkwaliteit                    | \$Bodemkwaliteit                    |
| environmentally friendly | Soil                 | Soil quality          | qualité du sol                    | \$qualité_du_sol                    |
| environmentally friendly | Soil                 | Soil quality          | amendements de sol                | \$amendements_de_sol                |
| environmentally friendly | Soil                 | Soil quality          | qualité des sols                  | \$qualité_des_sol                   |
| environmentally friendly | Soil                 | Soil quality          | amendement des terres             | \$amendement_des_terre              |
| environmentally friendly | Soil                 | Soil quality          | amendement des sols               | \$amendement_des_sol                |
| environmentally friendly | Soil                 | Soil pollution        | Bodemvervuiling                   | \$bodemvervuiling                   |
| environmentally friendly | Soil                 | Soil pollution        | pollution du sol                  | \$pollution_du_sol                  |
| environmentally friendly | Soil                 | Soil pollution        | pollution des sols                | \$pollution_des_sols                |
| environmentally friendly | Soil                 | Desertification       | désertification                   | \$désertification                   |
| environmentally friendly | Soil                 | Desertification       | desertificatie                    | \$desertificatie                    |
| environmentally friendly | Soil                 | Desertification       | woestijnvorming                   | \$woestijnvorming                   |
| environmentally friendly | Soil                 | Desertification       | verwoestijning                    | \$verwoestijning                    |
| Circular Economy         | Circular Economy     | Circular Economy      | Circulaire economie               | \$Circulaire_economie               |
| Circular Economy         | Circular Economy     | Circular Economy      | Kringlooeconomie                  | \$Kringlooeconomie                  |
| Circular Economy         | Circular Economy     | Circular Economy      | Kringloop economie                | \$Kringloop_economie                |
| Circular Economy         | Circular Economy     | Circular Economy      | Circulair aankopen                | \$Circulair_aankopen                |
| Circular Economy         | Circular Economy     | Circular Economy      | Circulair inkopen                 | \$Circulair_inkopen                 |
| Circular Economy         | Circular Economy     | Circular Economy      | circulair_aankoopproject          | \$Circulair_aankoopproject          |

|                  |                      |                      |                             |                               |
|------------------|----------------------|----------------------|-----------------------------|-------------------------------|
| Circular Economy | Circular Economy     | Circular Economy     | Circulaire_aankoopprojecten | \$Circulaire_aankoopprojecten |
| Circular Economy | Circular Economy     | Circular Economy     | end-of-life                 | \$end-of-life                 |
| Circular Economy | Circular Economy     | Circular Economy     | levenscycluskosten          | \$levenscycluskost            |
| Circular Economy | Circular Economy     | Circular Economy     | levenscyclusbekostiging     | \$levenscyclusbekostig        |
| Circular Economy | Circular Economy     | Circular Economy     | levenscyclusanalyse         | \$levenscyclusanalyse         |
| Circular Economy | Circular Economy     | Circular Economy     | levenscyclusanalyse         | \$LCA*                        |
| Circular Economy | Circular Economy     | Circular Economy     | life-cycle                  | \$life-cycl                   |
| Circular Economy | Circular Economy     | Circular Economy     | lifecyclecosting            | \$lifecyclecost               |
| Circular Economy | Circular Economy     | Circular Economy     | life-cycle-costing          | \$life-cycle-cost             |
| Circular Economy | Circular Economy     | Circular Economy     | lifecycle                   | \$lifecycl                    |
| Circular Economy | Circular Economy     | Circular Economy     | LCC                         | \$LCC*                        |
| Circular Economy | Circular Economy     | Circular Economy     | materiaalkringlopen         | \$materiaalkringlo            |
| Circular Economy | Circular Economy     | Circular Economy     | grondstofkringlopen         | \$grondstofkringlo            |
| Circular Economy | Circular Economy     | Circular Economy     | levenscyclus                | \$levenscycl                  |
| Circular Economy | Circular Economy     | Circular Economy     | milieukost(en)              | \$milieukost                  |
| Circular Economy | Circular Economy     | Circular Economy     | milieu kost(en)             | \$milieu_kost                 |
| Circular Economy | Circular Economy     | Circular Economy     | externe kost                | \$externe_kost                |
| Circular Economy | Circular Economy     | Circular Economy     | life cycle kost             | \$life_cycle_kost             |
| Circular Economy | Circular Economy     | Circular Economy     | total cost of ownership     | \$total_cost_of_ownership     |
| Circular Economy | Circular Economy     | Circular Economy     | total cost of ownership     | \$TCO*                        |
| Circular Economy | Circular Economy     | Circular Economy     | Cycle de vie                | \$Cycle_de_vie                |
| Circular Economy | Circular Economy     | Circular Economy     | circulair businessmodel     | \$circulair_businessmodel     |
| Circular Economy | Circular Economy     | Circular Economy     | l'économie circulaire       | \$l'economie_circulair        |
| Circular Economy | Circular Economy     | Circular Economy     | d'économie circulaire       | \$d'economie_circulair        |
| Circular Economy | Circular Economy     | Circular Economy     | économie circulaire         | \$économie_circulaire         |
| Circular Economy | Circular Economy     | Circular Economy     | Cycle de vie complet        | \$Cycle_de_vie_complet        |
| Circular Economy | Circular Economy     | Circular Economy     | cycles de matériaux         | \$cycles_de_matériaux         |
| Social           | Labour participation | Unemployed           | Werkloos                    | \$werklo                      |
| Social           | Labour participation | Unemployed           | Baanloos                    | \$baanlo                      |
| Social           | Labour participation | Unemployed           | Werkeloos                   | \$werkelo                     |
| Social           | Labour participation | Unemployed           | werkzoekenden               | \$werkzoekende                |
| Social           | Labour participation | Unemployed           | Ambteloos                   | \$Ambtelo                     |
| Social           | Labour participation | Unemployed           | Chômage                     | \$Chômag                      |
| Social           | Labour participation | Unemployed           | éloigné de l'emploi         | \$éloigné_de_l'emploi         |
| Social           | Labour participation | Unemployed           | sans emploi                 | \$sans_emploi                 |
| Social           | Labour participation | Unemployment benefit | Leefloon                    | \$Leefloon                    |
| Social           | Labour participation | Unemployment benefit | Leefloner                   | \$Leeflone                    |
| Social           | Labour participation | Unemployment benefit | Bijstandsgerechtigden       | \$Bijstandsgerechtig          |

|        |                      |                        |                                  |                                    |
|--------|----------------------|------------------------|----------------------------------|------------------------------------|
| Social | Labour participation | Unemployment benefit   | Uitkeringsgerechtigden           | \$uitkeringsgerechtig              |
| Social | Labour participation | Unemployment benefit   | Uitkering                        | \$uitkering*                       |
| Social | Labour participation | Unemployment benefit   | Bijstandsuitkering               | \$Bijstandsuitkering               |
| Social | Labour participation | Unemployment benefit   | Revenu vital                     | \$Revenu_vital                     |
| Social | Labour participation | Unemployment benefit   | bénéficiaires d'aides sociales   | \$bénéficiaires_d'aides_social     |
| Social | Labour participation | Unemployment benefit   | l'aide sociale                   | \$l'aide_social                    |
| Social | Labour participation | Unemployment benefit   | bénéficiaire d'aide sociale      | \$bénéficiaire_d'aide_social       |
| Social | Labour participation | Unemployment benefit   | revenu d'intégration             | \$revenu_d'intégration             |
| Social | Labour participation | Unemployment benefit   | Allocation de chômage            | \$Allocation_de_chômag             |
| Social | Labour participation | Unemployment benefit   | Allôcation chômage               | \$Allôcation_chômag                |
| Social | Labour participation | Unemployment benefit   | allôcation de l'aide sociale     | \$allôcation_de_l'aide_sociale     |
| Social | Labour participation | Unemployment benefit   | allocation des aides sociales    | \$allocation_des_aides_sociale     |
| Social | Labour participation | Unemployment benefit   | Allocation sociales              | \$allocation_sociales              |
| Social | Labour participation | Increase participation | beschut werk                     | \$beschut_werk                     |
| Social | Labour participation | Increase participation | beschut-werk                     | \$beschut-werk                     |
| Social | Labour participation | Increase participation | sociale inschakelingsonderneming | \$inschakelingsonderneming         |
| Social | Labour participation | Increase participation | werkgelegenheidsvooruitzicht     | \$werkgelegenheidsvooruitzicht     |
| Social | Labour participation | Increase participation | travailleur peu qualifié         | \$travailleur_peu_qualifié         |
| Social | Labour participation | Increase participation | demandeur d'emploi               | \$demandeur_d'emploi               |
| Social | Labour participation | Increase participation | travail protégé                  | \$travail__protégé                 |
| Social | Labour participation | Increase participation | ateliers protégés                | \$ateliers_protégés_               |
| Social | Labour participation | Increase participation | lieu de travail protégé          | \$lieu_de_travail_protégé          |
| Social | Labour participation | Increase participation | atelier protégé                  | \$atelier_protégé                  |
| Social | Labour participation | Increase participation | entreprise de travail adapté     | \$entreprise_de_travail_adapté     |
| Social | Labour participation | Increase participation | entreprises de travail adapté    | \$entreprises_de_travail_adapté    |
| Social | Labour participation | Increase participation | entreprises d'insertion sociale  | \$entreprises_d'insertion_sociale  |
| Social | Labour participation | Increase participation | entreprise d'insertion sociale   | \$entreprise_d'insertion_sociale   |
| Social | Labour participation | Increase participation | perspective d'emploi             | \$perspective_d'emploi             |
| Social | Labour participation | Increase participation | possibilité d'emploi             | \$possibilité_d'emploi             |
| Social | Labour participation | Increase participation | Laaggeschoolde arbeider          | \$Laaggeschoolde_arbeider          |
| Social | Labour participation | Increase participation | Laaggeschoolde werkzoekende      | \$Laaggeschoolde_werkzoekende      |
| Social | Labour participation | Increase participation | doelgroeparbeiders               | \$doelgroeparbeider                |
| Social | Labour participation | Increase participation | Beschutte werkplaats             | \$Beschutte_werkplaats             |
| Social | Labour participation | Increase participation | sociale inschakelingsonderneming | \$sociale_inschakelingsonderneming |
| Social | Labour participation | Increase participation | werkgelegenheidsvooruitzicht     | \$werkgelegenheidsvooruitzicht     |
| Social | Labour participation | Increase               | Sociale opleidingsclausule       | \$Sociale_opleidingsclausule       |

|        |                                 |                        |                                       |  |
|--------|---------------------------------|------------------------|---------------------------------------|--|
|        |                                 | participation          |                                       |  |
| Social | Labour participation            | Increase participation | sociale tewerkingstelling             | \$sociale_tewerkselling                  |
| Social | Labour participation            | Increase participation | Sociale tewerkingstellingsclausule    | \$Sociale_tewerkingstellingsclausule     |
| Social | Labour participation            | Increase participation | tewerkingstellingsproject             | \$tewerkingstellingsproject              |
| Social | Labour participation            | Increase participation | Maatwerkbedrijf                       | \$Maatwerkbedrijf                        |
| Social | Labour participation            | Increase participation | Socio-professionele inschakeling      | \$Socio-professionele_inschakeling       |
| Social | Labour participation            | Increase participation | participation des partenaires sociaux | \$participation_des_partenaires_sociaux_ |
| Social | Labour participation            | Increase participation | clause sociale                        | \$clause_sociale                         |
| Social | Labour participation            | Increase participation | entrepreneuriat social                | \$entrepreneuriat_social                 |
| Social | Labour participation            | Increase participation | clause sociale de formation           | \$clause_sociale_de_formation            |
| Social | Labour participation            | Increase participation | insertion socio-professionnelle       | \$insertion_socio-professionnelle        |
| Social | Labour participation            | Increase participation | clause flexible                       | \$clause_flexible                        |
| Social | Labour participation            | Increase participation | politique sociale                     | \$politique_sociale                      |
| Social | Labour participation            | Increase participation | insertion socioprofessionnelle        | \$insertion_socioprofessionnelle         |
| Social | Labour participation            | Increase participation | groene job                            | \$groene_job                             |
| Social | Labour participation            | Increase participation | buurt- en nabijheidsdienst            | \$buurt_en_nabijheidsdienst              |
| Social | Labour participation            | Increase participation | service de proximité                  | \$service_de_proximite                   |
| Social | Labour participation            | Increase participation | ETA                                   | \$ETA*                                   |
| Social | Labour participation            | Increase participation | groenjob                              | \$groenjob                               |
| Social | Labour participation            | Increase participation | groen job                             | \$groen_job                              |
| Social | Labour participation            | Increase participation | Vlaamse ondersteuningspremie          | \$Vlaamse_ondersteuningspremie           |
| Social | Labour participation            | Increase participation | Vlaamse ondersteuningspremie          | \$VOP*                                   |
| Social | Labour participation            | Increase participation | Arbeidszorg                           | \$Arbeidszorg                            |
| Social | Distance from the labour market | Disability             | Handicap                              | \$handicap                               |
| Social | Distance from the labour market | Disability             | Gehandicapt                           | \$gehandicap                             |
| Social | Distance from the labour market | Disability             | Gehoortproblemen                      | \$gehoortprobleem                        |
| Social | Distance from the labour market | Disability             | Slechtzienden                         | \$Slechtzienden                          |
| Social | Distance from the labour market | Disability             | Problème d'audition                   | \$Problème_d'audition                    |
| Social | Distance from the labour market | Disability             | Trouble auditif                       | \$Trouble_auditif                        |
| Social | Distance from the labour market | Disability             | malvoyant                             | \$malvoyant                              |
| Social | Distance from the labour market | Disability             | mal-voyant                            | \$mal-voyant                             |
| Social | Distance from the labour market | Disability             | Personen met beperkingen              | \$Personen_met_beperking                 |
| Social | Distance from the labour market | Disability             | Personen met een beperking            | \$Personen_met_een_beperking             |
| Social | Distance from the labour market | Disadvantaged          | kansarm                               | \$kansarm                                |
| Social | Distance from the labour market | Disadvantaged          | Kansengroep                           | \$kansengroep                            |
| Social | Distance from the labour market | Disadvantaged          | milieu défavorisé                     | \$milieu_defavorise                      |

|               |                                 |                   |                              |                                |
|---------------|---------------------------------|-------------------|------------------------------|--------------------------------|
| Social        | Distance from the labour market | Disadvantaged     | groupe vulnérable            | \$groupe_vulnérabl             |
| Social        | Distance from the labour market | Disadvantaged     | groupe défavorité            | \$groupe_défavori              |
| Social        | Social general                  | Social general    | Sociale criteria             | \$Sociale_criteri              |
| Social        | Social general                  | Social general    | Sociale criteria             | \$Sociaal_criteri              |
| Social        | Social general                  | Social general    | Sociale economie             | \$Sociale_economie             |
| Social        | Social general                  | Social general    | l'économie sociale           | \$l'économie_sociale           |
| Social        | Social general                  | Social general    | d'économie sociale           | \$d'économie_sociale           |
| Social        | Social general                  | Social general    | économie sociale             | \$économie_sociale             |
| ethical trade | Wages                           | Acceptable wage   | Aanvaardbaar loon            | \$Aanvaardbaar_loon            |
| ethical trade | Wages                           | Acceptable wage   | Aanvaardbare lonen           | \$Aanvaardbare_lonen           |
| ethical trade | Wages                           | Acceptable wage   | Leefbare lonen               | \$leefbare_lonen               |
| ethical trade | Wages                           | Acceptable wage   | Leefbaar loon                | \$Leefbaar_loon                |
| ethical trade | Wages                           | Acceptable wage   | Salaire acceptable           | \$Salaire_acceptable           |
| ethical trade | Wages                           | Acceptable wage   | salaire décent               | \$salaire_décent               |
| ethical trade | Wages                           | Acceptable wage   | salaire viable               | \$salaire_viable               |
| ethical trade | Prices                          | Fair price        | Eerlijke prijs               | \$Eerlijke_prij                |
| ethical trade | Prices                          | Fair price        | prix de marché équitable     | \$prix_de_marché_équitable     |
| ethical trade | Prices                          | Fair price        | prix juste                   | \$prix_juste                   |
| ethical trade | Prices                          | Fair price        | prix équitable               | \$prix_équitable               |
| ethical trade | Work                            | improper work     | kinderarbeid                 | \$kinderarbeid                 |
| ethical trade | Work                            | improper work     | lijfarbeid                   | \$lijfarbeid                   |
| ethical trade | Work                            | improper work     | dwangarbeid                  | \$dwangarbeid                  |
| ethical trade | Work                            | improper work     | slavendienst                 | \$slavendienst                 |
| ethical trade | Work                            | improper work     | travail d'enfant             | \$travail_d'enfant             |
| ethical trade | Work                            | improper work     | travail des enfants          | \$travail_des_enfants          |
| ethical trade | Work                            | improper work     | travail physique             | \$travail_physique             |
| ethical trade | Work                            | improper work     | travail physique obligatoire | \$travail_physique_obligatoire |
| ethical trade | Work                            | improper work     | travaux forcés               | \$travaux_forcés               |
| ethical trade | Work                            | improper work     | travail forcé                | \$travail_forcé                |
| ethical trade | Work                            | improper work     | esclavage                    | \$esclavag                     |
| ethical trade | Work                            | improper work     | l'esclavage                  | \$l'esclavage                  |
| ethical trade | Work                            | improper work     | travail d'exploitation       | \$travail_d'exploitation       |
| ethical trade | Work                            | decent work       | waardig werk                 | \$waardig_werk                 |
| ethical trade | Work                            | decent work       | menswaardig                  | \$menswaardig                  |
| ethical trade | Work                            | decent work       | vrij gekozen werk            | \$vrij_gekozen_werk            |
| ethical trade | Work                            | decent work       | dignité humaine              | \$dignité_humaine              |
| ethical trade | Work                            | decent work       | travail décent               | \$travail_décent               |
| ethical trade | working conditions              | Social dumping    | Dumping social               | \$dumping_social               |
| ethical trade | working conditions              | Social dumping    | Social dumping               | \$social_dumping               |
| ethical trade | working conditions              | Social dumping    | Sociale dumping              | \$sociale_dumping              |
| ethical trade | working conditions              | Discrimination    | Discriminatie                | \$Discriminatie                |
| ethical trade | working conditions              | Discrimination    | discrimination               | \$discrimination               |
| ethical trade | working conditions              | Discrimination    | non-discrimination           | \$non-discrimination           |
| ethical trade | working conditions              | Poverty reduction | Armoedebestrijding           | \$Armoedebestrijding           |
| ethical trade | working conditions              | Poverty reduction | réduction de la pauvreté     | \$réduction_de_la_pauvreté     |
| ethical trade | working conditions              | working           | arbeidsomstandigheden        | \$arbeidsomstandighe           |

|               |                    |                     |   |   |
|---------------|--------------------|---------------------|---|---|
|               |                    | conditions          |   |   |
| ethical trade | working conditions | working conditions  | conditions d'emploi correct                     | \$conditions_d'emploi_correct                         |
| ethical trade | working conditions | working conditions  | Conditions de travail                           | \$conditions_de_travail                               |
| ethical trade | working conditions | working conditions  | Condition de travail                            | \$Condition_de_travail                                |
| ethical trade | fair conditions    | fair trade          | ethische handel                                 | \$eerlijke_handel                                     |
| ethical trade | fair conditions    | fair trade          | commerce équitable                              | \$commerce_équitable                                  |
| ethical trade | fair conditions    | fair trade          | fair-trade                                      | \$fair-trade  |
| ethical trade | fair conditions    | fair trade          | fair trade                                      | \$fair_trade  |
| ethical trade | fair conditions    | fair trade          | fairtrade                                       | \$fairtrade   |
| ethical trade | fair conditions    | fair trade          | l'association FLO                               | \$l'association_FLO                                   |
| ethical trade | fair conditions    | fair trade          | association FLO                                 | \$association_FLO                                     |
| ethical trade | fair conditions    | fair trade          | FLO-eV  | \$FLO-eV  |
| ethical trade | fair conditions    | fair trade          | sociaal verantwoord                             | \$sociaal_verantwoord                                 |
| ethical trade | fair conditions    | fair trade          | ontwikkelingspremie                             | \$ontwikkelingspremie                                 |
| ethical trade | fair conditions    | fair trade          | Internationale Arbeidsorganisatie / IAO         | \$IAO*  |
| ethical trade | fair conditions    | fair trade          | Internationale Arbeidsorganisatie / IAO         | \$Internationale_arbeidsorganisa<br>tie               |
| ethical trade | fair conditions    | fair trade          | Culturele diversiteit                           | \$Culturele_diversiteit                               |
| ethical trade | fair conditions    | fair trade          | International labour organization               | \$International_labour_organizati<br>on               |
| ethical trade | fair conditions    | fair trade          | International labour organisation               | \$international_labour_organisati<br>on               |
| ethical trade | fair conditions    | fair trade          | ILO   | \$ILO*  |
| ethical trade | fair conditions    | fair trade          | commerce équitable                              | \$commerce_équitable                                  |
| ethical trade | fair conditions    | fair trade          | socialement responsable                         | \$socialement_responsable                             |
| ethical trade | fair conditions    | fair trade          | responsabilité sociale                          | \$responsabilité_sociale                              |
| ethical trade | fair conditions    | fair trade          | BIT   | \$BIT*  |
| ethical trade | fair conditions    | fair trade          | Bureau international du Travail                 | \$Bureau_international_du_Trava<br>il                 |
| ethical trade | fair conditions    | fair trade          | OIT   | \$OIT*  |
| ethical trade | fair conditions    | fair trade          | Organisation International du travail           | \$Organisation_International_du<br>_travail           |
| ethical trade | fair conditions    | fair trade          | diversité culturelle                            | \$diversité_culturel                                  |
| ethical trade | fair conditions    | fair trade          | prime de développement                          | \$prime de développe                                  |
| ethical trade | rights             | basic rights        | arbeidsrechten                                  | \$arbeidsrechten                                      |
| ethical trade | rights             | basic rights        | droits des travailleurs                         | \$droits_des_travailleurs                             |
| ethical trade | rights             | basic rights        | droit du travail                                | \$droit_du_travail                                    |
| ethical trade | rights             | basic rights        | mensenrechten                                   | \$mensenrecht   |
| ethical trade | rights             | basic rights        | Human Rights                                    | \$Human_Rights  |
| ethical trade | rights             | basic rights        | kansengelijkheid                                | \$Kansengelijkheid                                    |
| ethical trade | rights             | basic rights        | Droits de l'Homme                               | \$Droits_de_l'Homme                                   |
| ethical trade | rights             | trade union freedom | vakbondsvrijheid                                | \$vakbondsvrijhe                                      |
| ethical trade | rights             | trade union freedom | Vrijheid van vereniging en recht op organisatie | \$Vrijheid_van_vereniging_en_re<br>cht_op_organisatie |
| ethical trade | rights             | trade union freedom | Vakbondsrechten                                 | \$Vakbondsrechten                                     |
| ethical trade | rights             | trade union freedom | Liberté syndicale                               | \$Liberté_syndicale                                   |
| ethical trade | rights             | trade union freedom | liberté d'association                           | \$liberté_d'association                               |
| ethical trade | rights             | gender neutrality   | genderneutraliteit                              | \$genderneutra  |
| ethical trade | rights             | gender neutrality   | vrouwenrechten                                  | \$vrouwenrecht  |

|               |            |                                   |   |                                     |
|---------------|------------|-----------------------------------|---|-------------------------------------|
| ethical trade | rights     | gender neutrality                 | Gelijkheid mannen en vrouwen              | \$gelijkheid_mannen_en_vrouwen      |
| ethical trade | rights     | gender neutrality                 | égalité des sexes                         | \$égalité_des_sexes                 |
| ethical trade | rights     | gender neutrality                 | égalité homme femme                       | \$égalité_homme_femme               |
| ethical trade | rights     | gender neutrality                 | égalité homme-femme                       | \$égalité_homme-femme               |
| ethical trade | rights     | gender neutrality                 | droits de la femme                        | \$droits_de_la_femme                |
| ethical trade | rights     | gender neutrality                 | Droit de la femme                         | \$Droit_de_la_femme                 |
| ethical trade | rights     | gender neutrality                 | Droits des femmes                         | \$Droits_des_femme                  |
| ethical trade | rights     | gender neutrality                 | Inégalités homme-femme                    | \$Inégalités_homme-femme            |
| ethical trade | rights     | gender neutrality                 | égalité des chances                       | \$égalité_des_chance                |
| Local/SME     | local      | local                             | regioproduct                              | \$regioproduct                      |
| Local/SME     | local      | local                             | regio-product                             | \$regio-product                     |
| Local/SME     | local      | local                             | streek-product                            | \$streek-product                    |
| Local/SME     | local      | local                             | streekproduct                             | \$streekproduct                     |
| Local/SME     | local      | local                             | produit régional                          | \$produit_région                    |
| Local/SME     | local      | local                             | produit de région                         | \$produit_de_région                 |
| Local/SME     | local      | local                             | produits régionaux                        | \$produits_région                   |
| Local/SME     | local      | local                             | Lokale energie productie                  | \$Lokale_energie_productie          |
| Local/SME     | local      | local                             | Production d'énergie locale               | \$Production_d'énergie_local        |
| Local/SME     | SME        | Small and Medium-sized Enterprise | Kleine of middelgrote onderneming         | \$kleine_of_middelgrote_onderneming |
| Local/SME     | SME        | Small and Medium-sized Enterprise | KMO                                       | \$KMO*                              |
| Local/SME     | SME        | Small and Medium-sized Enterprise | Midden-en-Kleinbedrijf                    | \$midden-en-kleinbedrijf            |
| Local/SME     | SME        | Small and Medium-sized Enterprise | middenenKleinbedrijf                      | \$middenenkleinbedrijf              |
| Local/SME     | SME        | Small and Medium-sized Enterprise | Petite et moyenne entreprise              | \$Petite_et_moyenne_entreprise      |
| Local/SME     | SME        | Small and Medium-sized Enterprise | petites et moyennes entreprises           | \$petites_et_moyennes_entreprise    |
| Local/SME     | SME        | Small and Medium-sized Enterprise | KMO                                       | \$KMO*                              |
| Local/SME     | SME        | Small and Medium-sized Enterprise | PME                                       | \$PME*                              |
| Local/SME     | SME        | Small Enterprise                  | Kleinbedrijf                              | \$kleinbedrijf                      |
| Local/SME     | SME        | Small Enterprise                  | Klein-bedrijf                             | \$klein-bedrijf                     |
| Local/SME     | SME        | Small Enterprise                  | Petite entreprise                         | \$Petite_entreprise                 |
| Local/SME     | SME        | Small Enterprise                  | petites entreprises                       | \$petites_entreprise                |
| Local/SME     | SME        | Medium-sized Enterprise           | Middenbedrijf                             | \$middenbedrijf*                    |
| Local/SME     | SME        | Medium-sized Enterprise           | Midden-bedrijf                            | \$midden-bedrijf                    |
| Local/SME     | SME        | Medium-sized Enterprise           | Moyenne entreprise                        | \$Moyenne_entreprise                |
| Local/SME     | SME        | Medium-sized Enterprise           | Moyennes entreprises                      | \$Moyennes_entreprise               |
| innovation    | innovation | innovation                        | innovatie/innovation/innovatief/innovatif | \$innovat                           |
| innovation    | innovation | innovation                        | innovatiepartnerschap                     | \$innovatiepartner                  |

|            |                     |                            |  |   |
|------------|---------------------|----------------------------|--|---|
| innovation | innovation          | innovation                 | partenaire d'innovation                | \$partenaire_d'innovation                 |
| innovation | innovation          | innovation                 | partenariat d'innovation               | \$partenariat_d'innovation                |
| innovation | innovation          | innovation                 | partenaires de l'innovation            | \$partenaires_de_l'innovation             |
| innovation | innovation          | innovation                 | partenariats d'innovation              | \$partenariats_d'innovation               |
| Label      | environmental label | energy label               | Energieprestatiecertificaat            | \$Energieprestatiecertificaat             |
| Label      | environmental label | energy label               | Energieprestatiecontract               | \$Energieprestatiecontract                |
| Label      | environmental label | energy label               | Energie-efficiëntielabel               | \$Energie-efficiëntielabel                |
| Label      | environmental label | energy label               | Energy star                            | \$Energy_star                             |
| Label      | environmental label | energy label               | tableau d'efficacité énergétique       | \$tableau_d'efficacité_énerg              |
| Label      | environmental label | energy label               | HR-top                                 | \$HR-top                                  |
| Label      | environmental label | energy label               | Europees energie etiket                | \$Europees_energie_etiket                 |
| Label      | environmental label | energy label               | Europees Energielabel                  | \$Europees_energielabel                   |
| Label      | environmental label | food and agriculture label | ASC                                    | \$ASC*                                    |
| Label      | environmental label | food and agriculture label | ASC keurmerk                           | ASC_keur                                  |
| Label      | environmental label | food and agriculture label | ASC-keurmerk                           | ASC-keur                                  |
| Label      | environmental label | food and agriculture label | EKO                                    | \$EKO                                     |
| Label      | environmental label | food and agriculture label | Demeter                                | \$Demeter                                 |
| Label      | environmental label | food and agriculture label | UTZ                                    | \$Utz                                     |
| Label      | environmental label | food and agriculture label | Oxfam fair trade                       | \$Oxfam_fair_trade                        |
| Label      | environmental label | food and agriculture label | Oxfam fairtrade                        | \$Oxfam_fairtrade                         |
| Label      | environmental label | food and agriculture label | Max Havelaar                           | \$Max_havelaar                            |
| Label      | environmental label | food and agriculture label | Bio équitable                          | \$Bio_équitable                           |
| Label      | environmental label | food and agriculture label | Bio Partenaire                         | \$Bio_Partenaire                          |
| Label      | environmental label | food and agriculture label | Bio solidaire                          | \$Bio_Solidaire                           |
| Label      | environmental label | food and agriculture label | Biogarantie                            | \$Biogarantie                             |
| Label      | environmental label | food and agriculture label | Bioland                                | \$Bioland                                 |
| Label      | environmental label | food and agriculture label | EU Biolabel                            | \$EU_Biolabel                             |
| Label      | environmental label | food and agriculture label | Biolabel                               | \$biolabel                                |
| Label      | environmental label | food and agriculture label | Europees biolabel                      | \$Europees_biolabel                       |
| Label      | environmental label | food and agriculture label | MSC                                    | \$Marine_Stewardship_Council              |
| Label      | environmental label | food and agriculture label | MSC                                    | \$MSC*                                    |
| Label      | environmental label | food and agriculture label | Nature et progrès                      | \$Nature_et_progrès                       |
| Label      | environmental label | food and agriculture label | Naturland                              | \$Naturland                               |
| Label      | environmental label | food and agriculture label | conseil pour la bonne gestion des mers | \$conseil_pour la bonne gestion d es_mer  |
| Label      | environmental label | food and agriculture label | Conseil de la bonne gestion forestière | \$Conseil_de_la_bonne gestion f orestière |
| Label      | environmental label | food and agriculture label | Max Havelar                            | \$Max_Havelar                             |
| Label      | environmental label | food and agriculture label | OK compost                             | \$Ok_compost                              |
| Label      | environmental label | food and agriculture label | OK biodegradable                       | \$Ok_biodegradable                        |
| Label      | environmental label | food and agriculture label | Ok biobased                            | \$Ok_biobased                             |

|       |                     |                             |  |   |
|-------|---------------------|-----------------------------|--|---|
| Label | environmental label | food and agriculture label  | Soil association   | \$Soil_association  |
| Label | environmental label | food and agriculture label  | V-label  | \$V-label   |
| Label | environmental label | food and agriculture label  | V label  | \$V_label   |
| Label | environmental label | cosmetic label              | BDIH   | \$BDIH  |
| Label | environmental label | cosmetic label              | Cosmebio   | \$Cosmebio  |
| Label | environmental label | cosmetic label              | NATRUE   | \$NATRUE  |
| Label | environmental label | wood label                  | FSC  | \$FSC   |
| Label | environmental label | wood label                  | PEFC   | \$PEFC  |
| Label | environmental label | wood label                  | Conseil de soutien de la Forêt                             | \$Conseil_de_soutien_de_la_Forêt                          |
| Label | environmental label | wood label                  | Programme de reconnaissance des certifications forestières | \$Programme_de_reconnaissanc<br>e_des_certifications_fore |
| Label | environmental label | wood label                  | FSC keurmerk   | FSC_keur  |
| Label | environmental label | wood label                  | FSC-keurmerk   | FSC-keur  |
| Label | environmental label | textile label               | ökotex   | \$ökotex  |
| Label | environmental label | textile label               | oeko-tex   | \$oeko-tex  |
| Label | environmental label | textile label               | oekotex  | \$oekotex   |
| Label | environmental label | textile label               | öko-tex  | \$öko-tex   |
| Label | environmental label | textile label               | Bluesign   | \$Bluesign  |
| Label | environmental label | textile label               | Bluesign   | \$Blue_sign   |
| Label | environmental label | textile label               | Global Organic Textile Standard                            | \$Global_Organic_Textile_Stand<br>ard                     |
| Label | environmental label | textile label               | Global Organic Textile Standard                            | \$GOTS*   |
| Label | environmental label | textile label               | GUT  | \$GUT*  |
| Label | environmental label | textile label               | Fair trade textile   | \$Fair_trade_textile                                      |
| Label | environmental label | textile label               | Fair-trade textile   | \$Fair-trade_textile                                      |
| Label | environmental label | textile label               | Fairtrade textile  | \$Fairtrade_textile                                       |
| Label | environmental label | textile label               | EKO Sustainable textile                                    | \$EKO_sustainable_textile                                 |
| Label | environmental label | textile label               | STEP   | \$STEP*   |
| Label | environmental label | textile label               | STEP   | \$STEP-label  |
| Label | environmental label | textile label               | Naturtextil  | \$Naturtextil   |
| Label | environmental label | tourism label               | Gite Panda   | \$Gite_Panda  |
| Label | environmental label | tourism label               | Groene Sleutel   | \$Groene_Sleutel  |
| Label | environmental label | electronics label           | TCO Certified  | \$TCO_certif  |
| Label | environmental label | electronics label           | Epeat  | \$epeat*  |
| Label | environmental label | electronics label           | Optimaz  | \$Optimaz   |
| Label | environmental label | Construction label          | VIBE-label   | \$Vibe-label  |
| Label | environmental label | Construction label          | VIBE   | \$VIBE*   |
| Label | environmental label | Construction label          | Nature Plus  | \$Nature_Plus   |
| Label | environmental label | Animal-friendly label       | Leaping Bunny  | \$Leaping_Bunny   |
| Label | environmental label | Sustainable plastics label  | NEN 3373   | \$NEN_3373  |
| Label | environmental label | Sustainable plastics label  | certi-pur  | \$certi-pur   |
| Label | environmental label | Sustainable plastics label  | certipur   | \$certipur  |
| Label | environmental label | Sustainable plastics label  | Europur  | \$Europur   |
| Label | environmental label | general environmental label | Groene Punt  | \$Groene_Punt   |
| Label | environmental label | general environmental       | Europees Milieumanagement- en Audit Schema                 | \$EMAS*   |

|       |                     |                                      |  |  |
|-------|---------------------|--------------------------------------|--|--|
| Label | environmental label | label<br>general environmental label | Europees Milieumanagement- en Audit Schema                     | \$Europees_Milieumanagement_en_Audit_Schema*                   |
| Label | environmental label | general environmental label          | cradle-2-cradle  | \$cradle-2-cradle*   |
| Label | environmental label | general environmental label          | EMAS   | \$EMAS   |
| Label | environmental label | general environmental label          | Ecogarantie  | \$Ecogarantie  |
| Label | environmental label | general environmental label          | Eco-garantie   | \$eco-garantie   |
| Label | environmental label | general environmental label          | EU Ecolabel  | \$EU_Ecolabel  |
| Label | environmental label | general environmental label          | Europees Ecolabel  | \$Europees_ecolabel  |
| Label | environmental label | general environmental label          | Blauwe Engel   | \$Blauwe_Engel   |
| Label | environmental label | general environmental label          | Epeat  | \$Ethibel  |
| Label | environmental label | general environmental label          | NF environment   | \$NF_environment   |
| Label | environmental label | general environmental label          | NF environment   | \$NF-environment   |
| Label | environmental label | general environmental label          | Mobius   | \$Mobius   |
| Label | environmental label | general environmental label          | Nordic Swan  | \$Nordic_Swan  |
| Label | environmental label | general environmental label          | Nordic ecolabel  | \$Nordic_ecolabel  |
| Label | environmental label | general environmental label          | Système communautaire de management environnemental et d'audit | \$Système_communautaire_de_management_environmental_et_d'audit |
| Label | environmental label | general environmental label          | Le cygne blanc   | \$cygne_blanc  |
| Label | environmental label | general environmental label          | Green key  | \$Green_key  |
| Label | environmental label | general environmental label          | SCS global services  | \$SCS*   |
| Label | environmental label | general environmental label          | SCS global services  | \$SCS_global_services  |
| Label | environmental label | general environmental label          | Österreichische Umweltzeichen                                  | \$Österreichische_Umweltzeichen                                |
| Label | environmental label | general environmental label          | Ecocert Fair trade   | \$Ecocert_Fair_trade   |
| Label | environmental label | general environmental label          | Ecocert Fair trade   | \$Ecocert  |
| Label | environmental label | general environmental label          | Fairtrade international  | \$Fairtrade_international                                      |
| Label | environmental label | Sustainable                          | fairflower   | \$fairflower   |

|           |                     |                         |  |   |
|-----------|---------------------|-------------------------|--|---|
|           |                     | flowers label           |  |   |
| Label     | environmental label | Sustainable cars label  | Ecoscore                                     | \$ecoscore                                |
| Label     | environmental label | Waste label             | QA-CER                                       | \$QA-CER                                  |
| Label     | environmental label | ISO                     | ISO 14000                                    | \$ISO_14000                               |
| Label     | environmental label | ISO                     | ISO 14.000                                   | \$ISO_14.000                              |
| Label     | environmental label | ISO                     | ISO 14001                                    | \$ISO_14001                               |
| Label     | environmental label | ISO                     | ISO 14001                                    | \$ISO_14.001                              |
| Label     | environmental label | ISO                     | ISO 20400                                    | \$ISO_20400                               |
| Label     | environmental label | ISO                     | ISO 20400                                    | \$ISO_20.400                              |
| Label     | environmental label | ISO                     | ISO 14024                                    | \$ISO_14024                               |
| Label     | environmental label | ISO                     | ISO 14.024                                   | \$ISO_14.024                              |
| Label     | environmental label | ISO                     | ISO 14.025                                   | \$ISO_14.025                              |
| Label     | environmental label | ISO                     | ISO 14025                                    | \$ISO_14025                               |
| Label     | environmental label | ISO                     | ISO 24.000                                   | \$ISO_24.000                              |
| Label     | environmental label | ISO                     | ISO 24000                                    | \$ISO_24000                               |
| Label     | environmental label | ISO                     | ISO 24.001                                   | \$ISO_24.001                              |
| Label     | environmental label | ISO                     | ISO 24001                                    | \$ISO_24001                               |
| Label     | environmental label | ISO                     | ISO 26.000                                   | \$ISO_26.000                              |
| Label     | environmental label | ISO                     | ISO 26000                                    | \$ISO_26000                               |
| Label     | environmental label | ISO                     | ISO 50.000                                   | \$ISO_50.000                              |
| Label     | environmental label | ISO                     | ISO 50000                                    | \$ISO_50000                               |
| Label     | environmental label | ISO                     | ISO 50.001                                   | \$ISO_50.001                              |
| Label     | environmental label | ISO                     | ISO 50001                                    | \$ISO_50001                               |
| Label     | ethical trade label | labour conditions label | Goodweave                                    | \$Goodweave                               |
| Label     | ethical trade label | labour conditions label | SA8000                                       | \$SA8000                                  |
| Label     | ethical trade label | labour conditions label | Belgisch sociaal label                       | \$Belgisch_sociaal_label                  |
| Label     | ethical trade label | labour conditions label | SA 8000                                      | \$SA_8000                                 |
| Label     | ethical trade label | labour conditions label | Fair wear                                    | \$FWF*                                    |
| Label     | ethical trade label | labour conditions label | Fair wear                                    | \$Fair_wear                               |
| Label     | ethical trade label | labour conditions label | BSCI (Business Social Compliance Initiative) | \$BSCI                                    |
| Label     | ethical trade label | labour conditions label | BSCI (Business Social Compliance Initiative) | \$Business_social_compliance_initiative   |
| Label     | local label         | local products label    | Flandria                                     | \$Flandria                                |
| Label     | local label         | local products label    | Beschermde oorsprongbenaming                 | \$oorsprongbenaming                       |
| Label     | local label         | local products label    | Gegarandeerde Traditionele Specialiteit      | \$Gegarandeerde_Traditionele_specialiteit |
| Label     | local label         | local products label    | Gegarandeerde Traditionele Specialiteit      | \$GTS*                                    |
| Label     | local label         | local products label    | Appellation d'orgine protégée                | \$Appellation_d'orgine_protégée           |
| Label     | local label         | local products label    | Spécialité traditionnelle garantie           | \$Spécialité_traditionnelle_garantie      |
| Label     | local label         | local products label    | Clic local                                   | \$clic_local                              |
| Tüv label | Tüv label           | Tüv label               | Tüv  | \$Tüv                                     |
| Tüv label | Tüv label           | Tüv label               | Tüv-label                                    | \$Tüv-label                               |
| Tüv label | Tüv label           | Tüv label               | Tüv label                                    | \$Tüv_label                               |
| Tüv label | Tüv label           | Tüv label               | Tüv certificaat                              | \$Tüv_certificaat                         |
| Tüv label | Tüv label           | Tüv label               | le label Tüv                                 | \$label_Tüv                               |



## Annex 2: Extent of sustainable procurement for each sustainable procurement category

| <i>Main category</i>     | <i>Subcategory</i>        | <i>Sub-subcategory</i>         | <i># Main</i> | <i># Sub</i> | <i># Sub-Sub</i> |
|--------------------------|---------------------------|--------------------------------|---------------|--------------|------------------|
| Environmentally friendly | energy generation         | solar                          | 26271         | 2554         | 1192             |
| Environmentally friendly | energy generation         | wind                           |               |              | 409              |
| Environmentally friendly | energy generation         | water                          |               |              | 253              |
| Environmentally friendly | energy generation         | earth/cogeneration             |               |              | 874              |
| environmentally friendly | energy generation         | biomass                        |               |              | 268              |
| environmentally friendly | energy generation         | other                          |               |              | 0                |
| Environmentally friendly | energy consumption        | consumption of energy          |               | 3470         | 2388             |
| Environmentally friendly | energy consumption        | consumption of water           |               |              | 807              |
| Environmentally friendly | energy consumption        | saving                         |               |              | 1175             |
| Environmentally friendly | energy consumption        | LED                            |               |              | 297              |
| Environmentally friendly | sustainable energy        | green energy                   |               | 479          | 323              |
| Environmentally friendly | sustainable energy        | sustainable energy             |               |              | 182              |
| Environmentally friendly | materials consumption     | materials consumption          |               | 81           | 81               |
| Environmentally friendly | Waste                     | Recycle                        |               | 11696        | 9978             |
| Environmentally friendly | Waste                     | Extending lifespan             |               |              | 636              |
| Environmentally friendly | Waste                     | Waste separation               |               |              | 521              |
| environmentally friendly | waste                     | Quantity of waste              |               |              | 2265             |
| Environmentally friendly | Waste                     | Approach to waste              |               |              | 2079             |
| environmentally friendly | Gases                     | CO2                            |               | 3243         | 2901             |
| Environmentally friendly | Gases                     | Greenhouse gas                 |               |              | 662              |
| Environmentally friendly | Environmental pollution   | Air pollution                  |               | 5383         | 1864             |
| Environmentally friendly | Environmental pollution   | Water pollution                |               |              | 596              |
| environmentally friendly | Environmental pollution   | Low emissions                  |               |              | 35               |
| environmentally friendly | Environmental pollution   | Noise pollution                |               |              | 4071             |
| environmentally friendly | Environmental pollution   | Odour pollution                |               |              | 385              |
| environmentally friendly | Environmental pollution   | Light pollution                |               |              | 223              |
| Environmentally friendly | Food                      | Animal friendly                |               | 8485         | 349              |
| Environmentally friendly | Food                      | Conditions for animals         |               |              | 158              |
| Environmentally friendly | Food                      | Vegetarian                     |               |              | 294              |
| Environmentally friendly | Food                      | organic food & agriculture     |               |              | 8135             |
| environmentally friendly | Sustainable raw materials | Biogas                         |               | 801          | 152              |
| Environmentally friendly | Sustainable raw materials | Secondary raw materials        |               |              | 666              |
| environmentally friendly | General                   | Sustainable                    |               | 17361        | 11587            |
| Environmentally friendly | General                   | Ecological                     |               |              | 4858             |
| Environmentally friendly | General                   | Environmentally friendly       |               |              | 6026             |
| Environmentally friendly | General                   | Biodiversity                   |               |              | 603              |
| Environmentally friendly | General                   | environmental label            |               |              | 928              |
| environmentally friendly | General                   | Sustainable approach           |               |              | 6325             |
| environmentally friendly | General                   | Climate change                 |               |              | 185              |
| environmentally friendly | Water                     | Water quality                  |               | 1403         | 895              |
| environmentally friendly | Water                     | Water saving                   |               |              | 388              |
| environmentally friendly | Water                     | rainwater collection           |               |              | 330              |
| environmentally friendly | Forests                   | Forests                        |               | 270          | 19               |
| environmentally friendly | Forests                   | Sustainable forests            |               |              | 266              |
| environmentally friendly | Transport                 | Sustainable means of transport |               | 3017         | 2528             |
| environmentally friendly | Transport                 | Car pooling                    |               |              | 270              |
| environmentally friendly | Transport                 | Sustainable transport approach |               |              | 539              |
| environmentally friendly | Transport                 | Sustainable transport          |               |              | 58               |
| environmentally friendly | Hazardous substances      | Hazardous substances           |               | 3640         | 3640             |
| environmentally friendly | Soil                      | Soil quality                   |               | 1762         | 938              |
| environmentally friendly | Soil                      | Soil pollution                 |               |              | 950              |
| environmentally friendly | Soil                      | Desertification                |               |              | 5                |

|                   |                                 |                                   |       |      |      |
|-------------------|---------------------------------|-----------------------------------|-------|------|------|
| Circular Economy  | Circular Economy                | Circular Economy                  | 2294  | 2294 | 2294 |
| Social            | Labour participation            | Unemployed                        | 11335 | 6841 | 2213 |
| Social            | Labour participation            | Unemployment benefit              |       |      | 788  |
| Social            | Labour participation            | Increase participation            |       |      | 4621 |
| Social            | Distance from the labour market | Disability                        |       | 5857 | 5644 |
| Social            | Distance from the labour market | Disadvantaged                     |       |      | 357  |
| Social            | Social general                  | Social general                    |       | 1033 | 1033 |
| Ethical trade     | Wages                           | Acceptable wage                   | 11362 | 62   | 62   |
| Ethical trade     | Prices                          | Fair price                        |       | 7    | 7    |
| Ethical trade     | Work                            | improper work                     |       | 3752 | 3721 |
| Ethical trade     | Work                            | decent work                       |       |      | 84   |
| Ethical trade     | working conditions              | Social dumping                    |       | 8699 | 158  |
| Ethical trade     | working conditions              | Discrimination                    |       |      | 5717 |
| Ethical trade     | working conditions              | Poverty reduction                 |       |      | 73   |
| Ethical trade     | working conditions              | working conditions                |       |      | 3300 |
| Ethical trade     | fair conditions                 | fair trade                        |       | 5127 | 5127 |
| Ethical trade     | rights                          | basic rights                      |       | 3086 | 1044 |
| Ethical trade     | rights                          | trade union freedom               |       |      | 2218 |
| Ethical trade     | rights                          | gender neutrality                 |       |      | 20   |
| Local/SME         | local                           | local                             | 4080  | 50   | 50   |
| Local/SME         | SME                             | Small and Medium-sized Enterprise |       | 4043 | 3971 |
| Local/SME         | SME                             | Small Enterprise                  |       |      | 110  |
| Local/SME         | SME                             | Medium-sized Enterprise           |       |      | 279  |
| innovation        | innovation                      | innovation                        | 1551  | 1551 | 1551 |
| Sustainable label | Environmental label             | energy label                      | 8417  | 8340 | 529  |
| Sustainable label | Environmental label             | food and agriculture label        |       |      | 2842 |
| Sustainable label | Environmental label             | cosmetic label                    |       |      | 0    |
| Sustainable label | Environmental label             | wood label                        |       |      | 1862 |
| Sustainable label | Environmental label             | textile label                     |       |      | 1942 |
| Sustainable label | Environmental label             | tourism label                     |       |      | 7    |
| Sustainable label | Environmental label             | electronics label                 |       |      | 46   |
| Sustainable label | Environmental label             | Construction label                |       |      | 111  |
| Sustainable label | Environmental label             | Animal-friendly label             |       |      | 0    |
| Sustainable label | Environmental label             | Sustainable plastics label        |       |      | 5    |
| Sustainable label | Environmental label             | general environmental label       |       |      | 1445 |
| Sustainable label | Environmental label             | Sustainable flowers label         |       |      | 0    |
| Sustainable label | Environmental label             | Sustainable cars label            |       |      | 145  |
| Sustainable label | Environmental label             | Waste label                       |       |      | 0    |
| Sustainable label | environmental label             | ISO                               |       |      | 1742 |
| Sustainable label | Ethical trade label             | labour conditions label           |       | 288  | 288  |
| Sustainable label | local label                     | local products label              |       | 86   | 86   |