



A SYNTHESIS REPORT

MEASURING CHINA'S ENVIRONMENTAL INDUSTRY

BASED ON ENVIRONMENTAL GOODS AND SERVICES SECTOR (EGSS) ACCOUNTING FRAMEWORK





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Cover photo: Educating children in Minhang to recycle/Huang Tianhong

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1 INTRODUCTION



Measuring progress towards a green economy is a vital component of green economy strategies. In this regard, the accounting framework for the environmental goods and services sector (EGSS) is considered as a key approach for quantifying the performance of the environmental sectors in the economy. It offers an opportunity to define and measure how the green sectors develop, as well as to compare statistics across countries. The framework has been piloted in several developed countries, and has been integrated into the revised System of Environmental-Economic Accounting (SEEA) 2012.¹

As the world's largest emerging economy, China has been experiencing continuous growth in the environmental industries over the past decades. According to the Environmental Industry Survey 2011, the total turnover of China's environmental industry in 2011 reached more than RMB 3 trillion, which is 556 per cent higher than that in 2004.² However, the statistical basis for environmental industry in the country is still at its early development stage, where measuring the environmental industry is mainly based on sporadic research and the EGSS framework is yet to be introduced in China.

This synthesis report presents the results of a study on measuring China's environmental industry, which aims to identify the feasibility of applying the EGSS accounting framework in China. It is the first research project on EGSS framework in a developing country where the statistical standards are considerably different from the EGSS framework. The statistics on turnover, value added, employment and export provide solid data to support policymakers in their assessment of the development of environmental industry from various perspectives and thus make relevant decisions

that will facilitate the country's transition to a green economy.

The synthesis report is structured into seven sections. The introduction describes the development of China's environmental industry and its related statistics. The succeeding sections introduce the EGSS framework and compares it with China's standard statistics, along with an assessment of the linkages and challenges for the purpose of environmental industry statistics. It also explores the possibility of harmonizing the Environmental Industry Survey, which is by now the only official environmental industry statistics in China, to the EGSS framework and further illustrates it with a case study on Wu Han city. Based on the comparisons, the report provides a feasibility assessment of introducing EGSS into China, focusing on data collection from national regular statistics and Environmental Industry Survey. The report concludes by offering suggestions on how to apply EGSS framework in China as well as recommendations on how to further improve EGSS framework.

2 CHINA'S ENVIRONMENTAL INDUSTRY STATISTICS



2.1 THE DEVELOPMENT OF CHINA'S ENVIRONMENTAL SECTOR

In China, the environmental goods and services sector generally refers to energy saving and environmental protection industry, or environmental industry for short. The development of China's environmental industry started in the 1970s, along with the country's increasing attention on environmental issues. The first Environmental Law was initiated in 1979, and the National Bureau of Environmental Protection (the predecessor of the Ministry of Environmental Protection) was founded in 1983.³ Since the 1990s, the country has carried out a series of measures and policies to combat environmental pollution and ecological deterioration, which has accompanied the expansion of the environmental industry.

As illustrated in Figure 1, China's investment on pollution control has almost doubled in the last five years. Another statistics from the Ministry of Environmental Protection (MEP) indicate that the turnover of environmental industry grew more than six-fold from 2004 to 2011.4 According to the National 12th Five-Year Plan for Energy Saving and Environmental Protection Industry, the total output of energy savings and environmental protection industry is expected to reach RMB 4.5 trillion by 2015, accounting for 2 per cent of the gross domestic production (GDP). Moreover, the energy savings and environmental protection industry have been listed as one of the seven National Strategic Emerging Industries by the Chinese government, which are of vital importance in the country's future economic map.

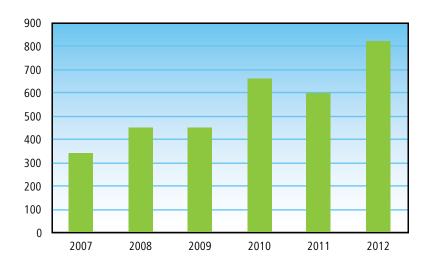
2.2 CHINA'S ENVIRONMENTAL INDUSTRY STATISTICS

China's environmental accounting is at a starting point, and there is no regular statistical activity specifically for environmental industry. Some of the environmental goods and services can be directly identified in the general product classification, and are measured by existing statistical practices. Some environmental products cannot be distinguished from non-environmental products and cannot be extracted from existing statistics.

Currently, the only official statistics on environmental industry is the Environmental Industry Survey led by the Ministry of Environmental Protection. Instead of a regular statistical practice, the survey has only been performed four times in the past: in 1993, 2000, 2004 and 2011. The survey aims to analyse the overall development of China's environmental industry. As the definition and classification of environmental industry in China changes over time, the survey sample and protocols vary as well. Figure 2 shows the different scopes of each survey.

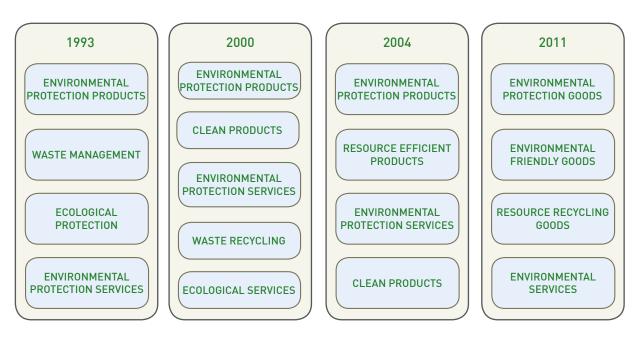
A new trend in China's environmental statistics is the statistics on national strategic emerging industries. The National Bureau of Statistics has released a product list of the seven national strategic emerging industries, which include energy efficient and environmental technologies, next generation information technology, biotechnology, high-end equipment manufacturing, new energy, new materials and new-energy vehicles, and incorporated some indicators of these industries into the Third National Economic Census in 2013. It is possible that more detailed and comprehensive statistical practices of the national strategic emerging industries will be carried out in the future.

FIGURE 1. CHINA'S INVESTMENT ON POLLUTION CONTROL (RMB BILLIONS)



Source: Ministry of Environmental Protection of China, 2008.

FIGURE 2. SCOPE OF CHINA'S ENVIRONMENTAL INDUSTRY SURVEY





3 OVERVIEW OF EGSS ACCOUNTING FRAMEWORK



The EGSS accounting framework, developed by Eurostat, has emerged as a critical approach to measure environmental sectors. It offers a way to define what types of investments and sectors can be considered "green", and to calculate this "share of green economic activities" in terms of turnover, value added, employment and exports. Eurostat released a handbook with definitions and data collection methods on EGSS in 2009, and since then some European countries started regular data collection based on the handbook.

According to the EGSS handbook, the environmental goods and services sector can be classified in two main groups:

- Environmental protection (EP), which includes technologies and products of both a preventive or remedial nature for the prevention, reduction, elimination and treatment of air emissions, waste and wastewater, soil and groundwater contamination, noise and vibration as well as radiation; the prevention, reduction and elimination of soil erosion and salinity as well as other kinds of degradation; and the preservation of biodiversity and landscapes as well as the monitoring and control of the quality of environmental media and waste.
- Resource management (RM), which comprises technologies and products to manage and/or conserve the stock of natural resources against depletion phenomena including both preventive and restoration activities as well as the monitoring and control of the levels and uses of natural resource stocks.

All of the products can be classified into nine EP domains and six RM domains based on the classification of environmental protection activities

(CEPA) and the classification of resource management activities (CReMA):

CEPA 1 Protection of ambient air and climate

CEPA 2 Wastewater management

CEPA 3 Waste management

CEPA 4 Protection and remediation of soil, groundwater and surface water

CEPA 5 Noise and vibration abatement

CEPA 6 Protection of biodiversity and landscapes

CEPA 7 Protection against radiation

CEPA 8 Environmental research and development (R&D)

CEPA 9 Other environmental protection activities

CReMA 10 Management of water

CReMA 10 Management of water

CReMA 11 Management of forest resources, of which:

CReMA 11.A Management of forest areas

CReMA 11.B Minimisation of the intake of forest resources

CReMA 12 Management of wild flora and fauna

CReMA 13 Management of energy resources, of which:

CReMA 13A Production of energy from renewable resources

CReMA 13B Heat/energy saving and management

CReMA 13C Minimisation of the use of fossil energy as raw materials

CReMA 14 Management of minerals

CReMA 15 Research and development (R&D) activities for resource management

CReMA 16 Other resource management activities

Technologies, goods and services produced by the EGSS can be classified as environmental 'specific' services, connected products (goods and services), adapted goods, integrated technologies and end-of-pipe technologies:

- Environmental specific (or "characteristic") products are goods and services produced in principal, secondary or ancillary activities that are typical for EP and RM.
- Connected (or environmental "sole-purpose")
 products are goods or services directly serving an
 EP or RM purpose and having no other use than EP
 or RM, but not being output of characteristic EP
 and RM activities.
- Adapted (or "cleaner and more resourceefficient") products are more environmentfriendly or less polluting products when produced, used or scrapped than equivalent normal products furnishing a similar utility.
- End-of-pipe technologies are mainly technical installations and equipment for control, measurement, treatment of pollution, resource degradation and depletion.
- Integrated (or "cleaner" and "resource efficient") technologies are technical processes, methods, and knowledge used in less polluting and less resource intensive technology than the equivalent average technology used by national producers.

The EGSS framework aims to measure four economic variables:

- Turnover is the totals invoiced by the observation unit during the reference period, and corresponds to the market sales of goods or services supplied to third parties. This is a useful concept to measure the size of a sector in a particular country.
- 2. Value added is the difference between production and intermediate consumption. It represents the

- contribution made by these activities towards gross domestic product.
- 3. Employment is the full-time equivalent employment engaged in the production of the environmental output. The full time equivalent is the total hours worked divided by average annual hours worked in full-time jobs.
- 4. Export is the sales, barter, gifts or grants, and goods and services from residents to nonresidents, which are important for evaluating the competitiveness of an economic sector in the global economy.

The data can be collected either through existing statistics or surveys and statistical estimations, and be further broken down into environmental domains (using CEPA/CReMA) and industries (using industrial classification). Countries are encouraged to fill in the standard tables consisting of data on different dimensions for international comparison.

The EGSS framework, as a comprehensive data collection framework for environmental goods and services, is receiving growing international recognition. Many European countries, such as Austria, the Netherlands and Germany, have started regular data collection. Canada has a regular survey specifically developed for environmental goods and services sector. Eurostat is intended to legalize EGSS data collection in the future. In 2012, EGSS framework was included in the revised System of Environmental-Economic Accounting (SEEA) 2012 by the United Nations. It is possible that, in the future, the EGSS framework would become a mainstream data collection framework for environmental goods and services.



CHINA'S STANDARD STATISTICS AND EGSS



4.1 CHINA'S STANDARD STATISTICS RELATED TO EGSS FRAMEWORK

A small portion of environmental products can be identified in the general product classification system. The General Product Classification for Statistical Use, which is the product classification standard for all statistical activities in China, classified all the products in the national economy into 97 divisions. The divisions consist of 814 groups, and the groups consist of 2,753 classes. Annex 1 below shows all the environmental goods and services that can be directly identified from the system. Under each product division.

Other environmental products are mixed with nonenvironmental goods and services. For instance, organic agricultural products are classified as the same category as non-organic products, and cannot be directly identified in the general product classification system. Some of the items in Annex 1 can be recategorized by the statistical scopes defined in the EGSS framework. For example, Class 800102 Services for wild animals protection is an environmental specific service and belongs to CReMA 12 Management of wild flora and fauna according to EGSS scopes. However, some items, such as "other ecological protection services", are not clear enough to be connected with specific EGSS product types and environmental domains. Some products, such as "Other pollution control services" which includes air pollution control services, noise remediation services, radiation remediation services, and lighting pollution control services, may belong to various environmental domains.

Currently there is no regular statistical database for environmental industry in China, and the data for environmental products scatter among various locations. For instance, the data for environmental monitoring equipment can be found in the China Mechanical Statistical Yearbook, and the data for pollution control equipment can be tracked from the database of the National Bureau of Statistics of China.

4.2 ESTIMATING EGSS VARIABLES THROUGH PUBLISHED STATISTICAL YEARBOOKS

This study examined a comprehensive statistical database, with the aim of compiling EGSS data through published statistical yearbooks. Some variables can be directly tracked from published records, while most of the others can only be estimated.

4.2.1 DATA SOURCE

The data source for this research is the China Statistical Yearbooks database developed by the China National Knowledge Infrastructure (CNKI). This database is by far the largest statistical database that is based on continuous statistical yearbooks, including A broad range of national and regional statistics. It is believed that this database can be a comprehensive and reliable data source for EGSS accounting.

4.2.2 MEASUREMENT APPROACHES

4.2.2.1 GOVERNMENTAL TURNOVER

As is suggested in the Environmental Goods and Services Sector: a Data Collection Handbook by Eutrostat (EGSS Handbook), the governmental turnover is equal to the cost of production, including the sum of the personnel costs, intermediate consumption, taxes on production and the consumption of fixed capital. some of the governmental turnover in this study was estimated through governmental budget statistics.

4.2.2.2 CORPORATE VALUE ADDED

Most of the statistics on valueadded in China is based on the value added increasing rate, and the data on specific industries is limited. The study used The approach recommended in the EGSS Handbook, that is the value added per employee are roughly the same for every enterprise in a particular industry class. Mathematically the approximation of value added is written as:

$$VA_{EGSS} = E_{EGSS}(\frac{VA_{industrywide}}{E_{industrywide}})$$

4.2.2.3 GOVERNMENTAL VALUE ADDED

Due to the lack of data accessibility, the study did not include governmental value added in the China study.

4.2.3 MEASUREMENT BY SECTORS

4.2.3.1 SERVICES FOR ECOLOGICAL PROTECTION

This category includes four sub-categories: services for nature reserves (CEPA 6), services for wild animals protection (CReMA 12), services for wild vegetation protection (CReMA 12), and other services for ecological protection (CEPA 9). Most of the services for ecological protection are governmental activities. The study estimated the turnovers by the costs. One of the challenges encountered was the difficulty to separate the statistics on services for wildlife protection from those the services for nature reserves, as both are often combined as one. Thus, the study divided the data on costs and employment evenly between these two parts, assuming that they have the same value. There are no statistics on value added and exports for this category.

4.2.3.2 URBAN ENVIRONMENTAL MANAGEMENT SERVICES

This category includes three sub-categories: urban garbage cleaning services, urban garbage treatment services and urban sewage treatment services. The

environmental domain is CEPA 3, and the product feature is environmental specific service. The statistics on turnover and employment can be found in published yearbooks. There is no statistics on value added and exports.

4.2.3.3 POLLUTION CONTROL SERVICES

This category includes services on water pollution prevention, hazardous waste management, and other pollution control (including air pollution prevention, noise remediation, and others). The statistics on turnover and employment can be found in the Statistical Yearbook of the Economic Census. The value added was estimated by the value added per employment of the social service industry. Since there are no specific data for each sub-category, the allocation was estimated by the investment ratio on each pollution control service sector.

4.2.3.4 METAL RECYCLED PRODUCTS

The study considered these products as adapted goods, and the environmental domain as CReMA 14. The turnover, employment and export can be found in the Statistical Yearbook of the Economic Census. The value added was calculated based on the annual increasing rate of value added since not all the value added data were provided.

4.2.3.5 NON-METAL RECYCLED PRODUCTS

This category includes recycled plastics, recycled leather, recycled paper and other non-metal recycled products. The study considered this kind of products as adapted goods with various environmental domains. The turnover, employment, and export data can be found in the Statistical Yearbook of the Economic Census. The value added was estimated based on the value added per employment of the recycling industry. Since there are no specific data for each sub-category, the study allocated the accountings evenly for each product type.

4.2.3.6 POLLUTION CONTROL EQUIPMENT

This category includes air pollution prevention equipment, water pollution prevention equipment, solid waste treatment equipment, noise abatement equipment and radiation prevention equipment. The study considered them as end-of-pipe technologies with different environmental domains. The turnover, employment and export data can be extracted from existing statistics. The value added was estimated by the value added per employment. Since there are no specific data for each sub-category, the study allocated the accountings by the production of each product type.

4.2.3.7 ENVIRONMENTAL EVALUATION AND MONITORING SERVICES

This category includes air pollution monitoring service, water pollution monitoring service, solid waste monitoring service, noise-monitoring service, ecological monitoring service and others. The study considered them as connected services with different environmental domains. The statistics for this category is limited, and the study was unable to make any estimation based on current data accessibility.

4.2.3.8 WATER RESOURCES PROTECTION SERVICES, WATER LOSS AND SOIL EROSION REMEDIATION SERVICES, AND WATER CONSERVANCY MANAGEMENT

The only relevant statistics for these three categories are those on water management industry. The study considered it as environmental specific service, and the environmental domain is CReMA 10. The turnover, employment and export data can be found in the Statistical Yearbook of the Economic Census. There are no export data.

4.2.3.9 SPECIFIC CHEMICAL PRODUCTS AND MATERIALS FOR POLLUTION REMEDIATION

These products are connected goods and cover two environmental domains, CEPA 2 and CEPA 1. The turnover, employment and export data can be extracted from existing statistics. The value added was calculated by annual value added increasing rate. Since there are no specific data for each sub-category, the study allocated the accountings evenly for each product type.

4.2.3.10 SPECIFIC EQUIPMENT FOR ENVIRONMENTAL MONITORING

This category includes three sub-categories: water pollution monitoring equipment, air and smog monitoring equipment and noise monitoring equipment. The study considered them as connected goods with different environmental domains. The turnover, employment and export data can be extracted from existing statistics. The value added was calculated by annual value added increasing rate. Since there are no specific data for each sub-category, the study allocated the accountings evenly for each product type.

4.2.4 DATA ANALYSIS

As shown in Tables 2 and 3, the published Chinese statistical yearbooks can provide some data on environmental specific and connected services, connected goods, and end-of-pipe technologies that belong to the environmental protection domain. However, the data on resource management activities are very limited. Indeed, only some environmental services of CReMA 12 and some adapted goods of CReMA 11B, CReMA 13 C, and CReMA 14 can be identified in the published statistical yearbooks.

As is indicated in Figure 3, the turnover, employment and export for environmental protection activities estimated from existing statistics are much larger than those for resource management activities. The value added for resource management activities is higher because the value added for recycled metal products is extremely high. A comprehensive table showing detailed data sources is attached as Annex 1.

4.3 CHALLENGES AND LIMITATIONS

Even though the published statistical yearbooks can provide valuable information for EGSS accounting, it is hard to compile consistent and complete data. The major challenges and limitations include:

It is very difficult to gather consistent data with the same statistical scope. Almost all of the variables are from different data sources. Some yearbooks are released directly by the National Bureau of Statistics, and some are from other governmental agencies. In addition, many variables are not measured on a yearly basis, and it is possible that the best available data are not from the same year. For instance, the Statistical Yearbook of the Economic Census consists of many variables needed in the EGSS framework; however, it is published every five years and cannot provide consecutive data.

The database may not cover everything, and the original statistical data collection forms have not been explored. Even though the database that the study used for this study is the largest online statistical database in China, it is still possible that some parts may be missed. Moreover, more of the data in the published statistical yearbooks have been aggregated, and this study does not analyze the original data collection forms due to lack of accessibility. It is possible that more precise and comprehensive data might be acquired if regrouping the original forms.

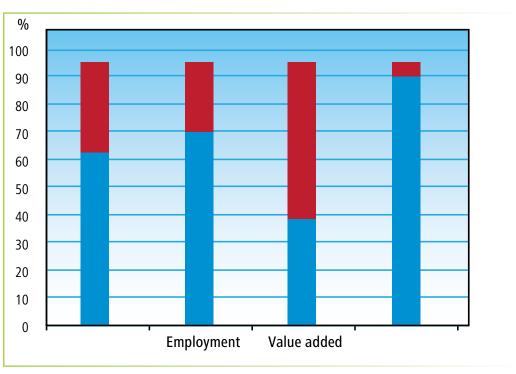
TABLE 1. EGSS THAT CAN BE IDENTIFIED IN CHINA'S PUBLISHED STATISTICAL YEARBOOKS (ENVIRONMENTAL PROTECTION)

	CEPA 1	CEPA 2	CEPA 3	CEPA 4	CEPA 5	CEPA 6	CEPA 7	CEPA 8	CEPA 9
Environmental specific &connected services	1	×	1	1	1	1	1	×	√
Adapted goods	×	×	×	×	×	-	_	_	_
Connected goods	√	√	×	√	√	×	×	_	×
End-of-pipe technologies	√	√	√	×	√	-	√	_	_
Integrated technologies	×	×	×	×	×	_	_	_	_

TABLE 2. EGSS THAT CAN BE IDENTIFIED IN CHINA'S PUBLISHED STATISTICAL YEARBOOKS (RESOURCE MANAGEMENT)

	CReMA 10	CReMA 11A	CReMA 11B	CReMA 12	CReMA 13A	CReMA 13B	CReMA 13C	CReMA 14	CReMA 15	CReMA 16
Environmental specific & connected services	×	×	×	J		×	×	_	_	×
Adapted goods	×	_	√	-	×	×	√	√	_	_
Connected goods	×	×	_	_	×	_	×	_	_	×
End-of-pipe technologies	×	×	_	×	×	×	_	_	_	_
Integrated technologies	×	×	×	_	×	×	×	×	_	_

FIGURE 3. PROPORTION OF ENVIRONMENTAL PROTECTION AND RESOURCE MANAGEMENT PRODUCTS (%)



CHINA'S ENVIRONMENTAL INDUSTRY SURVEY AND EGSS



5.1 INTRODUCTION OF THE 2011 ENVIRONMENTAL INDUSTRY SURVEY

The latest Environmental Industry Survey was launched in October 2012, with the aim to acquire overall information on China's environmental industry and provide data support for environmental industry policies.

Sample population. All the state-owned legal entities and the non-state-owned legal entities with an annual turnover of more than RMB 2 million, which produce environmental protection related goods and services and registered in Mainland China before 31 December 2011.

Variables. A series of variables that can reflect the overall development of the environmental industry. The detailed survey forms are listed in the appendix.

Survey year: 2011

Product classification. The goods and services are divided into four groups:

- Environmental-protection goods: equipment, materials, and chemical products for environmental pollution prevention and treatment, ecological protection, and resource recycling, as well as environmental monitoring facilities.
- Environmental-friendly goods: all the products
 that have earned valid environmental protection
 labels, energy saving and water saving labels, and
 organic product labels.
- Resource recycling goods: products that have been certified as resource efficient products.
- 4. Environmental service: pollution control service and environmental protection facilities maintenance service, environmental engineering construction service, research and development service, environmental policy and planning consulting services, environmental accounting and

certification service, environmental engineering consulting service, environmental impact assessment service, environmental monitoring service, and other related services.

Data collection. An exclusive online data collection system was created for the 2011 Environmental Industry Survey. It was a bottom-up approach that all the surveyed producers were required to submit their questionnaires to the local managing officials. The data were collected on each managing level, and finally summed up on the national level by the Ministry of Environmental Protection. The questionnaires of China's Environmental Industry Survey are attached in Annexes 5 to 11.

5.2 HARMONIZING CHINA'S ENVIRONMENTAL INDUSTRY SURVEY WITH EGSS FRAMEWORK

5.2.1 PRODUCT CLASSIFICATION

The Environmental Industry Survey offers a detailed product list, and each product has a unique code. As is illustrated in Appendix 2 to 4, most of the surveyed products can be re-classified into the 6 product types and 12 environmental domains as defined in the EGSS framework. The environmental protection goods are mainly connected goods and end-of-pipe technologies in the EGSS framework. The environmental-friendly goods are mainly adapted goods in the EGSS framework. The resource recycling goods mainly belongs to the group of resource management in the EGSS framework. The environmental services are generally environmental specific and connected services in the EGSS framework. The product list for environmental services is not clear enough to be broken down into different environmental domains, and no correspondence table for environmental services is attached.

The population in the Environmental Industry Survey is smaller than EGSS framework. As is shown in Tables 4 and 5, China's 2011 Environmental Industry Survey covers almost all the environmental domains in the EGSS framework except for CReMA 11 A and CReMA 15. Moreover, all the integrated technologies in the EP domains and all the end-of-pipe technologies in the RM domains are not incorporated.

5.2.2 DATA COMPILATION

As illustrated in Annexes 5 to 11, the questionnaires of China's Environmental Industry Survey contain most of the information needed for the EGSS framework. The EGSS data can be compiled through two approaches:

1. Through the original questionnaires of each surveyed unit. The information in the questionnaires

such as product names, economic sector, turnover, employment, export is useful in compiling EGSS data, and value added can be derived from other variables. The overall EGSS data can be acquired from the aggregation of questionnaires of all units. The case study in Wu Han, which will be discussed in the next chapter, proved the feasibility of this approach.

2. Through the aggregated data of each product. Since the products can be re-classified into EGSS scopes, the aggregated turnover, employment, export and value added-related variables of each product can also be regrouped by EGSS scopes and help generate EGSS statistics. This approach may be less accurate but easier to implement. This study does not practicalize this approach due to lack of data availability.

TABLE 3. EGSS THAT CAN BE IDENTIFIED IN CHINA'S ENVIRONMENTAL INDUSTRY SURVEY (ENVIRONMENTAL PROTECTION)

	CEPA 1	CEPA 2	CEPA 3	CEPA 4	CEPA 5	CEPA 6	CEPA 7	CEPA 8	CEPA 9
Environmental specific & connected services	1	√	J	1	√	1	√	√	1
Adapted goods	$\sqrt{}$	$\sqrt{}$	1	$\sqrt{}$	×	_	_	-	-
Connected goods	√	√	1	1	√	√	×	_	√
End-of-pipe technologies	√	√	1	1	V	-	V	_	*
Integrated technologies	×	×	×	×	×	-	_	-	_

[★] Products that are included in China's Environmental Industry Survey but not listed in the EGSS framework.

TABLE 4. EGSS THAT CAN BE IDENTIFIED IN CHINA'S ENVIRONMENTAL INDUSTRY SURVEY (RESOURCE MANAGEMENT)

	CReMA 10	CReMA 11A	CReMA 11B	CReMA 12	CReMA 13 A	CReMA 13 B	CReMA 13 C	CReMA 14	CReMA 15	CReMA 16
Environmental specific & connected services	×	×	×	1		×	×	_	_	×
Adapted goods	√	_	√	_	1	√	1	√	_	*
Connected goods	1	×	-	_	×	_	×	_	_	×
End-of-pipe technologies	×	×	_	×	×	×	_	_	_	_
Integrated technologies	×	×	√	_	×	×	1	√	_	*

[★] Products that are included in China's Environmental Industry Survey but not listed in the EGSS framework.

5.3 CASE STUDY: WU HAN

The city of Wu Han, located in Central China, is the capital of Hubei Province and one of the 10 largest cities in China. Since the environmental industry in Wu Han is relatively well developed, and the data is relatively easy to access, the study chose Wu Han to conduct the case study. The total production of environmental industry in 2010 was RMB 35 billion, accounting for 6.3 per cent of the total GDP, which is much higher than the national average of 2.76 per cent. Wu Han is also the home to a broad range of environmental companies in various sectors including pollution control, environmental monitoring, renewable energy and others.

This case study aims to collect EGSS data mainly through the database of the Environmental Industry Survey in Wu Han. The original questionnaires of all the surveyed units were examined and useful information for EGSS framework was extracted. After reclassifying the products into EGSS scopes, the authors aggregated the data of all the units by product classification. Finally, the authors filled in the EGSS standard table and drafted relevant figures in accordance with EGSS framework.

5.3.1 IDENTIFYING THE POPULATION

The survey population was mainly identified by the membership list of the Wu Han Association of Environmental Protection Industry, together with searching by key words from the local Yellow Pages and the Internet. Initially, a sample of 915 units was drawn from all available units. These units were the subjects of a telephone survey to establish the nature of their business and to place them within scope or out of scope for the survey. Subsequently, all in-scope units were sampled a second time, and 315 units (above a cut-off of RMB 2 million annual production) were identified to receive the full survey.

5.3.2 DATA COLLECTION

Most of the information that is needed in compiling EGSS data can be extracted from the original questionnaires of the Environmental Industry Survey. The turnover, employment, and export for each organization can be directly identified and sorted by economic sector and product name. There is no variable as value added in the survey, and it is estimated by the sum of wages, net product tax, depreciation of fixed capital, and surplus from profits.

All the data were collected by organizations instead of establishments, making it hard to process data for organizations that produce more than one type of product. In particular, the data on employment and value added for small companies is very difficult to allocate to each product since the distribution of work is not quite clear. This study divided the organizational statistics evenly to each type of product.

5.3.3 DATA ANALYSIS

The results are presented by economic variables, environmental domain, and type of output. The proportion of RM activities may be underestimated because a large number of RM activities are not included in the Environmental Industry Survey.

5.3.4 TURNOVER

The total EGSS turnover of Wu Han is RMB 111 billion, among which 92 per cent is from environmental protection (EP) activities and 8 per cent is from resource management (RM) activities. The three environmental domains that share the largest part of turnover are CReMA 13 Management of energy sources, CEPA 1 Protection of ambient air and climate and CEPA 3 Waste management. Most of the portion in CReMA 13 is from two large renewable energy companies.



The proportion of adapted goods is extremely high because of the contribution of two large automobile companies and two renewable energy companies (see Figures 4 and 5).

5.3.5 VALUE ADDED

The total EGSS value added in Wu Han is RMB 108 billion. Similar to turnover, the percentage of EP activities is much higher than that of RM activities. Regarding environmental domain, CReMA 13, CEPA 1 and CEPA 3 are also the highest. Adapted goods contribute most to the total value added in terms of type of output (see Figures 6 and 7).

5.3.6 EMPLOYMENT

The total employment in Wu Han is 54 thousand full-time equivalents. The EP activities contribute to 77 per cent of the total employment and RM activities contribute to 23 per cent. Regarding environmental domain, CReMA 13, CEPA 3, CEPA 2, and CEPA 1 are the highest. The adapted goods contribute to 35 thousand full-time equivalents, which is the highest among the types of output (see Figures 8 and 9).

5.3.7 EXPORT

The total EGSS export in Wu Han is US\$ 184 million. The EP export is slightly higher than the RM export in this case (see Figure 10).

FIGURE 4. EP AND RM TURNOVER, PERCENTAGE OF TOTAL TURNOVER (LEFT); EGSS TURNOVER BY ENVIRONMENTAL DOMAIN, PERCENTAGE OF TOTAL TURNOVER (RIGHT)

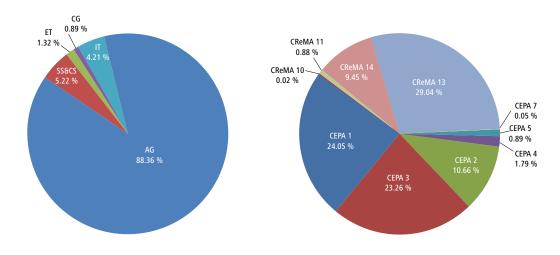


FIGURE 5. EGSS TURNOVER BY TYPE OF OUTPUT, RMB BILLIONS

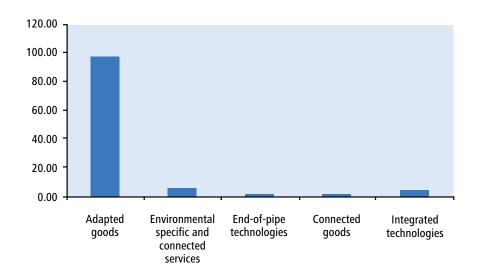


FIGURE 6. EP AND RM VALUE ADDED, PERCENTAGE OF TOTAL VALUE ADDED (LEFT); EGSS VALUE ADDED BY ENVIRONMENTAL DOMAIN, PERCENTAGE OF TOTAL VALUE ADDED (RIGHT)

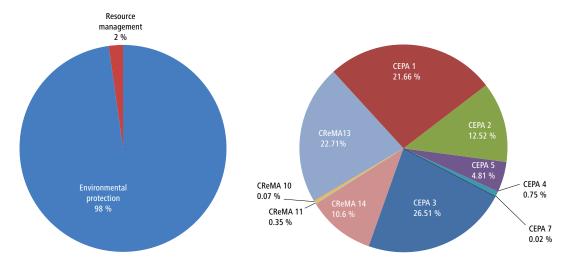


FIGURE 7. EGSS VALUE ADDED BY TYPE OF OUTPUT, RMB BILLIONS

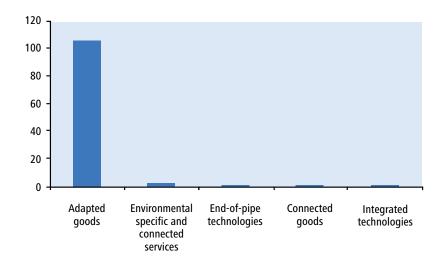


FIGURE 8. EP AND RM EMPLOYMENT, PERCENTAGE OF TOTAL EMPLOYMENT (LEFT); EGSS EMPLOYMENT BY ENVIRONMENTAL DOMAIN, PERCENTAGE OF TOTAL EMPLOYMENT (RIGHT)

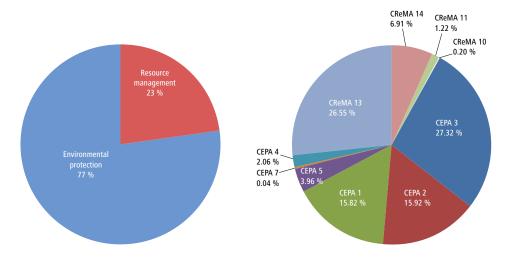


FIGURE 9. EGSS EMPLOYMENT BY TYPE OF OUTPUT, THOUSAND FULL-TIME EQUIVALENT

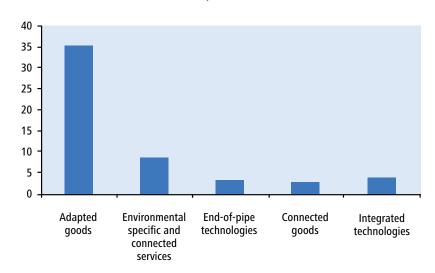
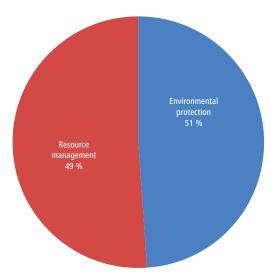


FIGURE 10. EP AND RM EXPORT, PERCENTAGE OF TOTAL EXPORT



FEASIBILITY ANALYSIS OF APPLYING EGSS FRAMEWORK IN CHINA



6.1 FEASIBILITY OF COLLECTING EGSS DATA THROUGH PUBLISHED STATISTICS

Although some of the environmental goods, services and technologies can be directly identified in the General Product Classification for Statistical Use, the published statistical yearbooks can only provide limited data source for EGSS data collection. Some of the major gaps identified are:

- The published statistics can hardly provide consistent and comprehensive EGSS data. Most of the variables are measured by different statistical scope and time series. Moreover, the excessive estimations and assumptions and lack of data quality control may affect the accuracy of the results. Most of the estimations and assumptions are not based on a solid basis, and there is no standard data quality control approach in the EGSS framework. Hence, the accuracy of the estimations cannot be testified.
- It is difficult to directly identify a broader group of environmental products. Most of the environment goods and services scatter among non-environmental products and cannot be directly identified. Even for those that can be clearly identified as EGSS, each product may have various subcategories that belong to different EGSS scopes and there is no data support for these subcategories.
- Lack of capacity and institutional support has impeded the progress of environmental industry statistics. The international environmental accounting practices such as Environmental Expenditure Accounting has not been officially incorporated into the regular statistical systems in China yet, which means the capacity building and

institutional arrangement need further improvement to enhance the environmental industry statistics.

For this phase, the EGSS China study did not have the opportunity to examine the original business registration information and statistical data collection forms of each company or organization. It is therefore possible that more valuable information could be found if the original data had been acquired.

6.2 FEASIBILITY OF COLLECTING EGSS DATA THROUGH ENVIRONMENTAL INDUSTRY SURVEY

The Environmental Industry Survey is by far the most comprehensive statistical practice specifically on environmental industry in China, which can serve as a starting point for EGSS data collection in China for the following reasons:

- The product classification covers a broad range of environmental products and is specific enough to be re-categorized by EGSS scopes. The product classification list of the Environmental Industry Survey contains most of the environmental protection products and some resource efficient products. If this product list could be further extended in the future, a larger EGSS producer group would be identified more easily.
- Most of the EGSS variables can be extracted from the Environmental Industry Survey, even though possible estimations may affect the accuracy. The EGSS statistics can either be extracted from the original data collectio9n forms of the Environmental Industry Survey or from the integrated data of each product code. The case study of Wu Han shows the feasibility of the first approach.

Some of the major gaps in applying EGSS framework in China are:

- The Environmental Industry Survey does not cover the entire EGSS population. The survey does not include small enterprises with an annual production below RMB 2 million since a considerable number of environmental companies are small businesses. Moreover, the survey does not measure the following areas:
 - Integrated technologies;
 - Environmental specific and connected services in the resource management domain;
 - End-of-pipe technologies in the resource management domain;
 - Connected goods in the resource management domain;
 - · Adapted goods in CEPA 5; and
 - Connected goods in CEPA 7.
- The estimation on producers with multiple types of products may not be accurate. The survey questionnaires are targeting at organizations instead of establishment, which means the

- turnover, employment, export and other variables are the sum of all the products in the organization. The case study in Wu Han shows that most of the environmental companies cannot break down their production to each product, especially those small enterprises where the organizational structure is not as clear as big firms.
- The survey is not performed on a regular basis and lacks standard protocols and long-standing support, hence cannot provide consistent statistics. Instead of a regular statistical practice led by the National Bureau of Statistics, the survey is a ministry-guided industrial survey by the Ministry of Environmental Protection. There is no strong legal or institution support for this survey, and the specific timeline of the next survey is still uncertain. The survey has conducted only four times since 1993 with no consistent protocols, which impedes the analysis by time series.



7 CONCLUSIONS AND RECOMMENDATIONS



7.1 MAJOR FINDINGS

Some of the major findings of the study are:

- China's current published statistics can hardly provide consistent, detailed, and reliable data for EGSS framework due to the lack of emphasis on environmental industry accounting and the differences in product classification and data collection approach.
- China's Environmental Industry Survey, led by the Ministry of Environmental Protection, can provide valuable information for EGSS data collection. The data can be accessed either through the original questionnaires of each unit or through the aggregated data of each product. The case study in Wu Han shows the feasibility of the first method, even though there remain many technical problems to be resolved.
- It is challenging to collect consistent and complete EGSS data in the near run. However, there is a good chance for EGSS framework in the long run since the government is intended to build the statistical system for emerging industries including environmental industry. The major problems and challenges for collecting EGSS data in China include:
 - The environmental accounting in China is at a very early stage, and the classification system and indicators are far different from international standards.
 - The population in the Environmental Industry Survey is smaller than what EGSS needs. Most of the surveyed products are environmental protection goods and services, and the products related to resource management are limited.
 - The Environmental Industry Survey is not performed on a regular basis, and lacks institution

support. The survey was conducted only in the year 1993, 2000, 2004, and 2011, and there is no clear sign of the next survey.

A three-step approach has been suggested for China to establish a comprehensive EGSS framework. The first step should identify the gaps between China's current environmental industry statistics and the EGSS framework. The second step should identify ways to bridge the gaps and integrate EGSS framework into the country's regular statistical system. The third step should try to create a routine system for EGSS data collection.

7.2 RECOMMENDATIONS ON HOW TO COMPREHENSIVELY APPLY EGSS FRAMEWORK IN CHINA

In recent years, China has been making significant efforts to improve its environmental industry statistics. The Environmental Industry Survey is a good example of the ministry-level efforts on exploring the development of environmental industry in the country. On a national level, China has released the *Product Classification for Strategic Emerging Industries*, which includes the environmental industry. This new classification system is a positive sign of possible statistical practices in the future. However, it requires a gradual process for China's environmental industry statistics to be harmonized with international standards. It is therefore suggested that China establish a comprehensive EGSS framework according to three steps:

Step 1: Undertake a study on the existing statistics and the Environmental Industry Survey and identify the major gaps between EGSS framework and China's current environmental industry survey. This study mainly focused on this step.

Step 2: Bridge the gaps identified in Step 1 and seek for the possibility of integrating the EGSS framework into

the regular statistical systems of China. It is suggested that the original business registration information and statistical data collection forms as well as the statistics on Strategic Emerging Industries should be analyzed so as to identify the potential approaches of integrating into China's regular statistical system.

Step 3: Based on the outcomes of the first two steps, create a complete blueprint for EGSS data collection in China.

7.3 RECOMMENDATIONS ON IMPROVING EGSS FRAMEWORK

Based on the study of China's environmental industry statistics, it is suggested that the EGSS framework be further improved in the following manner:

— Include more variables that can reflect the overall development of environmental industry. Even though the current four variables are sufficient to measure the contribution of EGSS to the overall economy, there are several others that are also crucial for assessing the industrial development and for international comparison. For instance, the investment and financing on environmental sectors are receiving growing attention and worth measuring as well.

- Create a product classification standard of EGSS. The product classification and standards may vary in different countries. In particular, the different standards for clean and resource efficient products may mislead the comparison among different countries. Therefore, it is suggested that the future EGSS framework could provide a product classification standard, which clarifies the boundaries of identifying EGSS population worldwide.
- Provide a guideline for data quality control and assessment. The accounting scope and data collection approaches are barely similar among different countries, and a guideline for data quality control and assessment is necessary for enhancing the effectiveness and accuracy of data comparison.

NOTES

- ¹ United Nations. System of Environmental-Economic Accounting 2012 Central Framework. 2014.
- ² China Environmental Industry Survey. (2011). Beijing: Ministry of Environmental Protection of China.
- ³ Qu, G. (27 December 2013). Retrieved 19 April 2014 from http://www.cenews.com.cn/gd/gdftx/201312/t20131227_754613.html
- ⁴ China Environmental Industry Survey. (2004). Beijing: Ministry of Environmental Protection of China.
- ⁵ China Environmental Industry Survey. (2011). Beijing: Ministry of Environmental Protection of China.
- ⁶ Eurostat. (2014). Available at: http://epp.eurostat.ec.europa.eu/cache/ITY_SDDS/en/env_ac_egss2_esms.htm
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ANNEX I. ENVIRONMENTAL GOODS AND SERVICES DIRECTLY IDENTIFIED IN THE GENERAL PRODUCT CLASSIFICATION FOR STATISTICAL USE

The symbol "—" indicates that the product cannot be connected with EGSS scopes

DIVISION	GROUP	CLASS	ITEMS IN GENERAL PRODUCT CLASSIFICATION SYSTEM	PRODUCT TYPE IN EGSS	ENVIRONMENTAL DOMAIN
80		'	Environmental management services		
	8001		Ecological protection services		
		800101	Ecological protection zones management	Environmental specific and connected service	CEPA 6
		800102	Services for wild animals protection	Environmental specific and connected service	CReMA 12
		800103	Services for wild vegetation protection	Environmental specific and connected service	CReMA 12
		800199	Other ecological protection services	_	_
	8003		Urban environmental management services		
		800301	Urban garbage cleaning services	Environmental specific and connected service	CEPA 3
		800302	Urban garbage treatment services	Environmental specific and connected service	CEPA 3
		800303	Urban sewage treatment services	Environmental specific and connected service	CEPA 3
	8004		Pollution control services		
		800401	Water pollution prevention services	Environmental specific and connected service	CEPA 4
		800402	Hazardous waste management	Environmental specific and connected service	CEPA 3
		800499	Other pollution control services	Environmental specific and connected service	CEPA 1; CEPA 5; CEPA 9; CEPA 7
43			Recycled products		
	4301		Metal recycled products		
		430101	Recycled melting scrap	Adapted goods	CReMA 14
		430102	Recycled melting iron	Adapted goods	CReMA 14
		430103	Recycled metals and metal compounds ash and residues	Adapted goods	CReMA 14
		430104	Recycled non-ferrous metal scrap and scrap	Adapted goods	CReMA 14
		430105	Recycled waste and scrap of precious metal or metal clad with precious	Adapted goods	CReMA 14
		430106	Recycled waste batteries	Adapted goods	CReMA 14
		4301990000	Others	_	_
	4302		Non-metal recycled products		
		430201	Recycled textile waste	Adapted goods	CReMA 11B
		430202	Recycled leather waste	Adapted goods	CReMA 13C
		430203	Recycled paper	Adapted goods	CReMA 11B
		430204	Recycled rubber scrap	Adapted goods	CReMA 13C
		430205	Recycled plastic waste	Adapted goods	CReMA 13C
		4302060000	Recycled waste glass	Adapted goods	CReMA 14
		4302070000	Recycled discarded appliances	Adapted goods	CReMA 14
		4302990000	Others	_	_

ANNEX I. ENVIRONMENTAL GOODS AND SERVICES DIRECTLY IDENTIFIED IN THE GENERAL PRODUCT CLASSIFICATION FOR STATISTICAL USE (CONTINUED)

The symbol "—" indicates that the product cannot be connected with EGSS scopes

DIVISION	GROUP	CLASS	ITEMS IN GENERAL PRODUCT CLASSIFICATION SYSTEM	PRODUCT TYPE IN EGSS	ENVIRONMENTAL DOMAIN
36			Specific equipment		
	3650		Pollution control equipment		
		365001	Air pollution control equipment	End-of-pipe technologies	CEPA 1
		365002	Water pollution control equipment	End-of-pipe technologies	CEPA 2
		365003	Solid waste pollution control equipment	End-of-pipe technologies	CEPA 3
		365004	Noise and vibration abatement equipment	End-of-pipe technologies	CEPA 5
		365005	Radiation pollution control equipment	End-of-pipe technologies	CEPA 7
76			Profession technological services		
	7606		Environmental evaluation and monitoring services		
		7606010000	Environmental assessment services	Environmental specific and connected service	CEPA 9
		760602	Air pollution monitoring services	Environmental specific and connected service	CEPA 1
		760603	Water pollution monitoring services	Environmental specific and connected service	CEPA 2. CEPA 4
		760604	Solid waste monitoring services	Environmental specific and connected service	CEPA 3
		760605	Noise monitoring services	Environmental specific and connected service	CEPA 5
		760606	Ecological monitoring services	Environmental specific and connected service	CEPA 4; CReMA 11A; CEPA 6; CReMA 14
		760699	Others	Environmental specific and connected service	CEPA 7,CEPA 9
79			Water management		
	7904		Water resource protection services		
		7904000000	Water resource protection services	Environmental specific and connected service	CReMA 10
'	7905		Water loss and soil erosion remediation services		
		7905000000	Water loss and soil erosion remediation services	Environmental specific and connected service	CEPA 4
	7906		Water conservancy management		
		7906050000	Water conservancy services	Environmental specific and connected service	CReMA 10
		7906060000	Water and soil protection consultation services	Environmental specific and connected service	CReMA 10
		790607	Water saving consultation services	Environmental specific and connected service	CReMA 10

ANNEX I. ENVIRONMENTAL GOODS AND SERVICES DIRECTLY IDENTIFIED IN THE GENERAL PRODUCT CLASSIFICATION FOR STATISTICAL USE (CONTINUED)

The symbol "—" indicates that the product cannot be connected with EGSS scopes

DIVISION	GROUP	CLASS	ITEMS IN GENERAL PRODUCT CLASSIFICATION SYSTEM	PRODUCT TYPE IN EGSS	ENVIRONMENTAL DOMAIN	
26			Chemical materials and products			
	2619		Specific chemical products and materials for pollution remediation			
		261901	Water treatment chemicals	Connected goods	CEPA 2	
		261902	Wastewater treatment chemicals	Connected goods	CEPA 2	
		261903	Wastewater treatment bio- chemicals	Connected goods	CEPA 2	
		261904	Wastewater treatment materials	Connected goods	CEPA 2	
		261905	Air pollution treatment chemicals	Connected goods	CEPA 1	
41			Specific equipment making			
	4107		Specific equipment for environmental monitoring			
		410701	Water pollution monitoring equipment	Connected goods	CEPA 4	
		410702	Air and smog monitoring equipment	Connected goods	CEPA 1	
		410703	Noise monitoring equipment	Connected goods	CEPA 5	

ANNEX 2. MEASURING EGSS THROUGH PUBLISHED STATISTICAL YEARBOOKS

PRODUCT	INDUSTRY	PRODUCT TYPE	ENVIRON- MENTAL DOMAIN	TURNOVER (RMB BILLION)	DATA SOURCE	EMPLOYMENT (10'000 FULL-TIME EQUIVALENT)	DATA SOURCE	VALUE ADDED (RMB	DATA SOURCE	EXPORT (RMB BILLION)	DATA SOURCE
Ecological protection zones management	N77	Environmental specific and connected service	CEPA 6	0.303775	China Forestry Statistical Yearbook 2009	0.1271	China Population Census 2010	_	_	_	_
Services for wild animals and vegetation protection	N77	Environmental specific and connected service	CReMA 12	0.303775	Idem.	0.1271	Idem.	_	_	_	_
Urban environmental management services	N78	Environmental specific and connected service	CEPA 3	36.6615	China Urban Construction Statistical Yearbook 2010	28.25	Idem.	_	_	_	
Water pollution prevention services	N77	Environmental specific and connected service	CEPA 4	11.329	Statistical Yearbook of the Economic Census 2008	47.21	Statistical Yearbook of the Economic Census 2008	10.28	Estimated by value added per employment, 2008	_	_
Hazardous waste management	N77	Environmental specific and connected service	CEPA 3	1.058	Idem.	4.4105	Idem.	0.96	Idem.	_	_
Air pollution prevention services	N77	Environmental specific and connected service	CEPA 1	1.364	Idem.	5.6832	Idem.	1.237	Idem.	_	_
Noise pollution prevention services	N77	Environmental specific and connected service	CEPA 5	1.364	Idem.	5.6832	Idem.	1.237	Idem.	_	_
Light pollution prevention services	N77	Environmental specific and connected service	CEPA 9	1.364	Idem.	5.6832	Idem.	1.237	Idem.	_	_
Radiation pollution prevention services	N77	Environmental specific and connected service	CEPA 7	1.364	Idem.	5.6832	Idem.	1.237	Idem.	_	_
Natural disaster prevention services	N77	Non-EGSS	Non-EGSS	1.364	Idem.	5.6832	Idem.	1.237	Idem.	_	_
Other environmental treatment services	N77	Environmental specific and connected service	CEPA 9	1.364	Idem.	5.6832	Idem.	1.237	Idem.	_	_
Metal recycled products	C42	Adapted goods	CReMA 14	105.232	Idem.	11.57	Idem.	94.646	Idem.	0.289	Statistical Yearbook of the Economic Census 2008

ANNEX 2. MEASURING EGSS THROUGH PUBLISHED STATISTICAL YEARBOOKS (CONTINUED)

PRODUCT	INDUSTRY	PRODUCT TYPE	ENVIRON- MENTAL DOMAIN	TURNOVER (RMB BILLION)	DATA SOURCE	EMPLOYMENT (10'000 FULL-TIME EQUIVALENT)	DATA SOURCE	VALUE ADDED (RMB BILLION)	DATA SOURCE	EXPORT (RMB BILLION)	DATA SOURCE
Recycled textile waste	C42	Adapted goods	CReMA 11B	2.766	ldem.	0.33	Idem.	2.689	Statistical Yearbook of the Economic Census 2008	0.026	Idem.
Recycled leather waste	C42	Adapted goods	CReMA 13C	2.766	Idem.	0.33	Idem.	2.689	Idem.	0.026	Idem.
Recycled paper	C42	Adapted goods	CReMA 11B	2.766	Idem.	0.33	Idem.	2.689	Idem.	0.026	Idem.
Recycled rubber scrap	C42	Adapted goods	CReMA 13C	2.766	Idem.	0.33	Idem.	2.689	Idem.	0.026	Idem.
Recycled plastic waste	C42	Adapted goods	CReMA 13C	2.766	Idem.	0.33	Idem.	2.689	Idem.	0.026	Idem.
Recycled waste	C42	Adapted goods	CReMA 14	2.766	Idem.	0.33	Idem.	2.689	Idem.	0.026	Idem.
Recycled discarded appliances	C42	Adapted goods	CReMA 14	2.766	Idem.	0.33	Idem.	2.689	Idem.	0.026	Idem.
Other non- metal recycled products	C42	Adapted goods	CReMA 16	2.766	Idem.	0.33	Idem.	2.689	Idem.	0.026	Idem.
Air pollution control equipment	C35	End-of-pipe technologies	CEPA 1	127.33	National Bureau of Statistics 2011	13.6	National Bureau of Statistics 2011	50.067	National Bureau of Statistics 2011	5.733	National Bureau of Statistics 2011
Water pollution control equipment	C35	End-of-pipe technologies	CEPA 2	46.615	Idem.	4.98	Idem.	18.329	Idem.	2.099	Idem.
Solid waste pollution control equipment	C35	End-of-pipe technologies	CEPA 3	13.662	Idem.	1.46	Idem.	5.372	Idem.	0.615	Idem.
Noise and vibration abatement equipment	C35	End-of-pipe technologies	CEPA 5	6.054	Idem.	0.65	Idem.	2.380	Idem.	0.273	Idem.
Radiation pollution control equipment	C35	End-of-pipe technologies	CEPA 7	0.939	Idem.	0.1	Idem.	0.369	Idem.	0.042	Idem.
Environmental evaluation and monitoring services	N74		CEPA 9	_	_	_	_	_	_	_	_
Air pollution monitoring services	N74		CEPA 1	_	_	_	_	_	_	_	_
Water pollution monitoring services	N74		CEPA 2, CEPA 4	_	_	_	_	_	_	_	_

ANNEX 2. MEASURING EGSS THROUGH PUBLISHED STATISTICAL YEARBOOKS (CONTINUED)

PRODUCT	INDUSTRY	PRODUCT TYPE	ENVIRON- MENTAL DOMAIN	TURNOVER (RMB BILLION)	DATA SOURCE	EMPLOYMENT (10'000 FULL-TIME EQUIVALENT)	DATA SOURCE	VALUE ADDED (RMB BILLION)	DATA SOURCE	EXPORT (RMB BILLION)	DATA SOURCE
Solid waste monitoring services	N74	Environmental specific and connected service	CEPA 3	_	_	_	_	_	_	_	_
Noise monitoring services	N74	Environmental specific and connected service	CEPA 5	_	_	_	_	_	_	_	_
Ecological monitoring services	N74	Environmental specific and connected service	CEPA 4, CReMA 11A, CEPA 6, CReMA 14	_	_	_	_	_	_	_	_
Other environmental monitoring services	N74	Environmental specific and connected service	CEPA 7,CEPA 9	_	_	_	_	_	_	_	_
Water management	N76	Environmental specific and connected service	CReMA 10	3.933	Statistical Yearbook of the Economic Census 2008	30.49	Statistical Yearbook of the Economic Census 2008	7.135	Estimated by value added per employment, 2008	_	_
Water treatment chemicals	C26	Connected goods	CEPA 2	2.552	National Bureau of Statistics 2011	0.22	National Bureau of Statistics 2011	0.6006	National Bureau of Statistics 2011	_	_
Wastewater treatment chemicals	C26	Connected goods	CEPA 2	2.552	ldem.	0.22	Idem.	0.6006	Idem.	_	_
Wastewater treatment bio- chemicals	C26	Connected goods	CEPA 2	2.552	Idem.	0.22	Idem.	0.6006	Idem.	_	_
Wastewater treatment materials	C26	Connected goods	CEPA 2	2.552	Idem.	0.22	Idem.	0.6006	Idem.	_	_
Air pollution treatment chemicals	C26	Connected goods	CEPA 1	2.552	Idem.	0.22	Idem.	0.6006	Idem.	_	_
Water pollution monitoring equipment	C40	Connected goods	CEPA 4	3.593	Idem.	0.42	China Mechanical Statistical Yearbook 2012	0.742	Estimated by value added per employment, 2011	0.416	China Mechanical Statistical Yearbook 2012
Air and smog monitoring equipment	C40	Connected goods	CEPA 1	3.593	Idem.	0.42	Idem.	0.742	Idem.	0.416	Idem.
Noise monitoring equipment	C40	Connected goods	CEPA 5	3.593	Idem.	0.42	Idem.	0.742	Idem.	0.416	Idem.

SS Environmental specific services

CS Connected services

CG Connected goods

ET End-of-pipe technologies

AG Adapted goods

IT Integrated technologies

		Code	;		Designation	Product type	Environmental domain
01					Water pollution control products	1,7,7	
01	01				Water pollution control equipment		
01	01	01			Grit removal device	CG	CEPA2
01	01	01	01	00	Vortex grit integration equipment	CG	CEPA2
01	01	01	02	00	Spiral grit-water separator	CG	CEPA2
01 01	01 01	01 01	03 99	00	Grit scraper and sucker Others	CG CG	CEPA2 CEPA2
01	01	02	99	00	Precipitation devices	CG	CEPA2 CEPA2
01	01	02	01	00	Silt scraper and sucker	CG	CEPA2 CEPA2
01	01	02	02	00	Complete set of small precipitation equipment	CG	CEPA2
01	01	02	99	00	Others	CG	CEPA2
01	01	03		00	Clarification device	CG	CEPA2
01	01	03	01	00	Integration clarification equipment	CG	CEPA2
01	01	03	02	00	Mechanical stirring device of clarification tank	CG	CEPA2
01	01	03	99	00	Others	CG	CEPA2
01	01	04			Oil-removing device	CG	CEPA2
01	01	04	01	00	Oil-water separator	CG	CEPA2
01	01	04	02	00	Oil-removing and -separating integration device	CG	CEPA2
01	01	04	03	00	Slag scraper	CG	CEPA2
01	01	04	99	00	Others	CG	CEPA2
01	01	05			Air flotation separation device	CG	CEPA2
01	01	05	01	00	Pressurized dissolved air flotation device	CG	CEPA2
01	01	05	02	00	Mechanical stirring air floatation device	CG	CEPA2
01	01	05	99	00	Others	CG	CEPA2
01	01	06	00	00	Magnetic separation device Sieve-filtration device	CG	CEPA2
01 01	01 01	07 07	01	00	Hydraulic screen	CG CG	CEPA2 CEPA2
01	01	07	02	00	Drum screen	CG	CEPA2 CEPA2
01	01	07	03	00	Grille decontamination machine	CG	CEPA2 CEPA2
01	01	07	99	00	Others	CG	CEPA2
01	01	08	"	00	Filter device	CG	CEPA2
01	01	08	01	00	Particle filter	CG	CEPA2
01	01	08	02	00	Disc filter	CG	CEPA2
01	01	08	03	00	Fiber filter	CG	CEPA2
01	01	08	04	00	Sintered micro-porous filter	CG	CEPA2
01	01	08	99	00	Others	CG	CEPA2
01	01	09			Sludge-dewatering thickener	CG	CEPA2
01	01	09	01	00	Sludge thickener	CG	CEPA2
01	01	09	02	00	Vacuum drum sludge dehydrator	CG	CEPA2
01	01	09	03	00	Belt type sludge dehydrator	CG	CEPA2
01	01	09	04	00	Van plate & frame sludge dehydrator	CG	CEPA2
01	01	09	05	00	Horizontal screw centrifugal sludge dehydrator	CG	CEPA2
01	01	09	06	00	Integration concentrated dehydrator	CG	CEPA2
01	01	09	99	00	Others	CG	CEPA2
01 01	01 01	10 10	01	00	Evaporation device Multiple effect evaporator	CG CG	CEPA2 CEPA2
01	01	10	02	00	Film evaporator	CG	CEPA2 CEPA2
01	01	10	99	00	Others	CG	CEP A2
01	01	11	00	00	Acid-alkali neutralization device (including dosing system)	CG	CEPA2
01	01	12	- 0		Oxidation-reduction device	CG	CEPA2
01	01	12	01	00	Chemical oxidation-reduction device	CG	CEPA2
01	01	12	02	00	Catalytic oxidation-reduction device	CG	CEPA2
01	01	12	99	00	Others	CG	CEPA2
01	01	13			Disinfection device	CG	CEPA2
01	01	13	01	00	Ozone generator	CG	CEPA2
01	01	13	02	00	Chlorinator	CG	CEPA2
01	01	13	03	00	Sodium hypochlorite generator	CG	CEPA2
01	01	13	04	00	Electrolysis chlorine dioxide generator	CG	CEPA2
01	01	13	05	00	Chemical chlorine dioxide generator	CG	CEPA2
01	01	13	06	00	UV sterilizer	CG	CEPA2
01	01	13	99	00	Others Congulation devices (including design system)	CG	CEPA2
01 01	01 01	14 14	01	00	Coagulation device (including dosing system) Mechanical coagulation device	CG CG	CEPA2 CEPA2
01	01	14	02	00	Hydraulic coagulation device	CG	CEPA2 CEPA2
01	01	14	03	00	Pipeline blending coagulation device	CG	CEP A2
01	51	- '	55		perme orename congulation device	, 55	

SS Environmental specific services

ET End-of-pipe technologies

00	Environmental specific services		Life of pipe reciliologies
CS	Connected services	AG	Adapted goods
CG	Connected goods	IT	Integrated technologies

On 1			Code			Designation	Product	Environmental
O	0.1	0.1			00	<u> </u>	type	domain
Oi								
Oil 17 00 00 00 Oil								
Adsorption device								
Oli				00	00			
10								
10								
Oi								
Oi								
Membrane separation device								
Oi				00	00			
Oi								
Oi								
Oi								
Oi								
Oi								
Oil 10 20 99 00 Others CG CEPA2								
Oi								-
Oi								
O1				00	00			
OI 22 02 00 OI 22 03 00 OI Pump-suction type aerator ET CEPA2								
OI 01 22 03 00								
OI 01 22 04 00								_
OI 01 22 05 00 Others ET CEPA2								
OI 01 22 99 00 Others								
OI 01 23								
Oi				99	00			
O1								_
OI								
OI								-
OI						Inner cycle (IC)		
O1								
OI								
Oil Oil								
O1				99	00			
O1				0.1				
O1								
O1								
O1						Desulfurization equipment		
01 01 25 0 Supporting equipment special for water pollution treatment CG CEPA2 01 01 25 01 00 Decanter CG CEPA2 01 01 25 99 00 Others CG CEPA2 01 01 26 01 00 Agitator CG CEPA2 01 01 26 02 00 Underwater propeller CG CEPA2 01 01 26 03 00 Triangle weir CG CEPA2 01 01 26 04 00 Adjustable weir gate CG CEPA2 01 01 26 05 01 Sewage pump CG CEPA2 01 01 26 05 01 Sewage pump CG CEPA2 01 01 26 05 03 Metering pump CG CEPA2 01 01 26 05								
01 01 25 01 00 Others CG CEPA2 01 01 25 99 00 Others CG CEPA2 01 01 26 01 00 Agitator CG CEPA2 01 01 26 02 00 Underwater propeller CG CEPA2 01 01 26 03 00 Triangle weir CG CEPA2 01 01 26 04 00 Adjustable weir gate CG CEPA2 01 01 26 05 Pump CG CEPA2 01 01 26 05 01 Sewage pump CG CEPA2 01 01 26 05 01 Secrew type sludge pump CG CEPA2 01 01 26 05 03 Metering pump CG CEPA2 01 01 26 05 04 Submersible pump <td></td> <td></td> <td></td> <td>99</td> <td>00</td> <td></td> <td></td> <td></td>				99	00			
01 01 25 99 00 Others CG CEPA2 01 01 26 01 00 Agitator CG CEPA2 01 01 26 02 00 Underwater propeller CG CEPA2 01 01 26 03 00 Underwater propeller CG CEPA2 01 01 26 03 00 Adjustable weir gate CG CEPA2 01 01 26 05 01 Sewage pump CG CEPA2 01 01 26 05 01 Sewage pump CG CEPA2 01 01 26 05 01 Sewage pump CG CEPA2 01 01 26 05 02 Metering pump CG CEPA2 01 01 26 05 04 Submersible pump CG CEPA2 01 01 26 06 05								
01 01 26 General equipment for water pollution treatment CG CEPA2 01 01 26 01 00 Agitator CG CEPA2 01 01 26 02 00 Underwater propeller CG CEPA2 01 01 26 03 00 Triangle weir CG CEPA2 01 01 26 04 00 Adjustable weir gate CG CEPA2 01 01 26 05 Dump CG CEPA2 01 01 26 05 Dump CG CEPA2 01 01 26 05 01 Sewage pump CG CEPA2 01 01 26 05 02 Metering pump CG CEPA2 01 01 26 05 04 Submersible pump CG CEPA2 01 01 26 06 01 Common gate, valve CG								
01 01 26 01 00 Agitator CG CEPA2 01 01 26 02 00 Underwater propeller CG CEPA2 01 01 26 03 00 Triangle weir CG CEPA2 01 01 26 04 00 Adjustable weir gate CG CEPA2 01 01 26 05 Pump CG CEPA2 01 01 26 05 01 Sewage pump CG CEPA2 01 01 26 05 02 Screw type sludge pump CG CEPA2 01 01 26 05 03 Metering pump CG CEPA2 01 01 26 05 04 Submersible pump CG CEPA2 01 01 26 05 99 Others CG CEPA2 01 01 26 06 01 Common gat				99	00			
01 01 26 02 00 Underwater propeller CG CEPA2 01 01 26 03 00 Triangle weir CG CEPA2 01 01 26 04 00 Adjustable weir gate CG CEPA2 01 01 26 05 01 Sewage pump CG CEPA2 01 01 26 05 01 Sewage pump CG CEPA2 01 01 26 05 02 Screw type sludge pump CG CEPA2 01 01 26 05 03 Metering pump CG CEPA2 01 01 26 05 04 Submersible pump CG CEPA2 01 01 26 05 99 Others CG CEPA2 01 01 26 06 01 Common gate, valve CG CEPA2 01 01 26 06								
01 01 26 03 00 Triangle weir CG CEPA2 01 01 26 04 00 Adjustable weir gate CG CEPA2 01 01 26 05 01 Sewage pump CG CEPA2 01 01 26 05 02 Screw type sludge pump CG CEPA2 01 01 26 05 03 Metering pump CG CEPA2 01 01 26 05 03 Metering pump CG CEPA2 01 01 26 05 04 Submersible pump CG CEPA2 01 01 26 05 99 Others CG CEPA2 01 01 26 06 01 Common gate, valve CG CEPA2 01 01 26 06 02 Electric gate, valve, CG CEPA2 01 01 26 07								
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01 01 26 05 Pump CG CEPA2 01 01 26 05 01 Sewage pump CG CEPA2 01 01 26 05 02 Screw type sludge pump CG CEPA2 01 01 26 05 03 Metering pump CG CEPA2 01 01 26 05 99 Others CG CEPA2 01 01 26 06 Gate valve CG CEPA2 01 01 26 06 01 Common gate, valve CG CEPA2 01 01 26 06 02 Electric gate, valve, CG CEPA2 01 01 26 06 99 Others CG CEPA2 01 01 26 07 01 Centrifugal blower CG CEPA2 01 01 26 07 02 Roots blower CG </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
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01 01 26 07 02 Roots blower CG CEPA2 01 01 26 07 03 Ventilator CG CEPA2 01 01 26 07 99 Others CG CEPA2 01 01 26 08 Conveyor CG CEPA2					0.1			
01 01 26 07 03 Ventilator CG CEPA2 01 01 26 07 99 Others CG CEPA2 01 01 26 08 Conveyor CG CEPA2								
01 01 26 07 99 Others CG CEPA2 01 01 26 08 Conveyor CG CEPA2								
01 01 26 08 Conveyor CG CEPA2								
					99			
01 01 26 08 01 Belt conveyor CG CEPA2					0.1			
	01	01	26	08	01	Belt conveyor	I CG	CEPA2

SS Environmental specific services
CS Connected services

ET End-of-pipe technologies AG Adapted goods IT Integrated technologies

CG Connected goods

		Code			Designation	Product type	Environmen domain
)1	01	26	08	02	Screw conveyor (normal, press)	CG	CEPA2
)1	01	26	08	99	Others	CG	CEPA2
1	01	26	09	00	Automatic control system (including the central processing system)	CG	CEPA2
)1	01	26	99	00	Others	CG	CEPA2
)1	01	99	00	00	Others		
)1	02				Agent for water pollution control		
)1	02	01	00	00	Polymer flocculant	CG	CEPA2
)1	02	02	00	00	Inorganic coagulant	CG	CEPA2
)1)1	02 02	03 04	00	00	Biological flocculant Scale inhibitor	CG	CEPA2
)1	02	05	00	00	Antiseptic agent (sterilization, alga killing)	CG CG	CEPA2 CEPA2
)1	02	99	00	00	Others		CLIAZ
)1	03		00	00	Material for water pollution prevention		
1	03	01			Apparatus	CG	CEPA2
1	03	01	01	00	Carrier	CG	CEPA2
1	03	01	02	00	Inclined tube plate	CG	CEPA2
1	03	01	99	00	Others	CG	CEPA2
1	03	02	0.1	00	Packing	CG	CEPA2
1 1	03 03	02 02	01 02	00	Fixed bio-film packing Suspension bio-film packing	CG CG	CEPA2 CEPA2
1	03	02	02	00	Hanging bio-film packing	CG	CEPA2 CEPA2
1	03	02	99	00	Others	CG	CEPA2
1	03	03		00	Filtering material	CG	CEPA2
1	03	03	01	00	Natural filtering material	CG	CEPA2
1	03	03	02	00	Sintering filtering material	CG	CEPA2
1	03	03	03	00	Fiber filtering material	CG	CEPA2
1	03	03	99	00	Others	CG	CEPA2
1	03	04		0.0	Separation membrane	CG	CEPA2
1	03	04	01	00	Ceramic membrane	CG	CEPA2
1	03	04 04	02 03	00	Microfiltration membrane Ultra-filtration membrane	CG CG	CEPA2
1 1	03 03	04	03	00	Nano-filtration membrane	CG	CEPA2 CEPA2
1	03	04	05	00	Reverse osmosis membrane	CG	CEPA2
1	03	04	06	00	Electro-dialysis membrane	CG	CEPA2
1	03	04	99	00	Others	CG	CEPA2
1	03	05			Adsorption material	CG	CEPA2
1	03	05	01	00	Diatomite adsorbent	CG	CEPA2
1	03	05	02	00	Bentonite absorbent	CG	CEPA2
1	03	05	03	00	Molecular sieve adsorbent	CG	CEPA2
1	03 03	05 05	04 05	00	Macro-porous adsorption resin Activated carbon adsorbent	CG CG	CEPA2 CEPA2
1	03	05	99	00	Others	CG	CEPA2
1	03	06	"	00	Ion exchange resin	CG	CEPA2
1	03	06	01	00	Anion exchange resin	CG	CEPA2
1	03	06	02	00	Cation exchange resin	CG	CEPA2
1	03	06	03	00	Macro-porous chelating resin	CG	CEPA2
1	03	06	99	00	Others	CG	CEPA2
1	03	07	00	00	Sludge dewatering material	CG	CEPA2
1	03	99	00	00	Others Air pollution control product		
2	01				Atmospheric pollution control equipment		
)2	01	01			Dust (mist or oil)-removing equipment	ET	CEPA 1
2	01	01	01		Mechanical dust (mist or oil)-removing device	ET	CEPA 1
2	01	01	01	01	Gravity precipitator	ET	CEPA 1
2	01	01	01	02	Inertia precipitator	ET	CEPA 1
2	01	01	01	03	Centrifugal precipitator	ET	CEPA 1
2	01	01	01	99	Others	ET	CEPA 1
2	01	01	02		Wet dust (mist or oil)-removing device	ET	CEPA 1
2	01	01	02	01	Spray wet precipitator	ET	CEPA 1
2	01	01	02	02	Vortex board wet precipitator Centrifugal wet precipitator	ET	CEPA 1
2	01 01	01 01	02 02	03 99	Others	ET ET	CEPA 1 CEPA 1
2	01	01	03	00	Filter layer dust removal device	ET	CEPA 1
)2	01	01	04	0.0	Bag dust removal device	ET	CEPA 1

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			5			-8	
		Code	;		Designation	Product	Environmental
02	01	01	04	01	Mechanical vibration type bag filter	type ET	domain CEPA 1
02	01	01	04	02	Counter blowing bag filter	ET	CEPA 1 CEPA 1
02	01	01	04	03	Injection type pulse bag filter	ET	CEPA1
02	01	01	04	04	Rotary blowback bag filter	ET	CEPA1
02	01	01	04	99	Others	ET	CEPA1
02	01	01	05	"	Accessories of bag filter	CG	CEPA1
02	01	01	05	01	Soot cleaning device	CG	CEPA1
02	01	01	05	02	Filter bag	CG	CEPA 1
02	01	01	05	03	Filter bag framework	CG	CEPA 1
02	01	01	05	04	Electromagnetic pulse valve	CG	CEPA 1
02	01	01	05	05	Pulse injection controlling instrument	CG	CEPA 1
02	01	01	05	99	Others	CG	CEPA 1
02	01	01	06		Electrostatic dust removal device	ET	CEPA 1
02	01	01	06	01	Plate type electrostatic precipitator (ESP)	ET	CEPA 1
02	01	01	06	02	Tubular type electrostatic precipitator (ESP)	ET	CEPA 1
02	01	01	06	03	Wet electrostatic precipitator (ESP)	ET	CEPA 1
02	01	01	06	99	Others	ET	CEPA 1
02	01	01	07	00	Compound electricity bag dust removal device	ET	CEPA 1
02	01	01	08		ESP accessories	CG	CEPA 1
02	01	01	08	01	HV power supply	CG	CEPA 1
02	01	01	08	02	LV power supply	CG	CEPA 1
02	01	01	08	99	Others	CG	CEPA 1
02	01	01	99	00	Others		
02	01	02	00	00	Wet desulfurization dust removal integration device	ET	CEPA 1
02	01	03			Supporting equipment for flue gas desulfurization (FGD)	ET	CEPA 1
02	01	03	01	00	Limestone-gypsum method	ET	CEPA 1
02	01	03	02	00	Flue gas circulating fluidized bed	ET	CEPA 1
02	01	03	03	00	Spray-to-dry method	ET	CEPA 1
02	01	03	04	00	Spraying-calcium-inside-the-furnace-for-tail-flue- humidification activation method	ET	CEPA 1
02	01	03	05	00	Novel integrated desulfurization (NID)	ET	CEPA 1
02	01	03	06	00	Seawater desulfurization	ET	CEPA 1
02	01	03	07	00	Ammonia desulphurization	ET	CEPA 1
02	01	03	08	00	Dry activated-carbon desulphurization	ET	CEPA 1
02	01	03	99	00	Others	ET	CEPA 1
02	01	04			Supporting equipment for flue gas denitration	ET	CEPA 1
02	01	04	01	00	Selective catalytic reduction (SCR)	ET	CEPA 1
02	01	04	02	00	Selective non-catalytic reduction (SNCR)	ET	CEPA 1
02	01	04	03	00	SNCR + SCR co-denitration	ET	CEPA 1
02	01	04	04	00	Low nitrogen burner	ET	CEPA 1
02	01	04	05	00	Ammonia generator	ET	CEPA 1
02	01	04	99	00	Others	ET	CEPA 1
02	01	05	0.1		Motor vehicle purification device	ET	CEPA 1
02	01	05	01	0.1	Motor vehicle engine purification device	ET	CEPA 1
02	01	05	01	01	Forced ventilation device for auto crankcase	ET	CEPA 1
02	01	05	01	02	Fuel evaporative recovery device	ET	CEPA 1
02	01		01	99	Others Motor vehicle exhaust purification device	ET	CEPA 1
02 02	01 01	05 05	02 02	01	Gasoline vehicle exhaust catalytic converter	ET ET	CEPA 1
02	01	05	02	02	Diesel exhaust catalytic converter	ET	CEPA 1 CEPA 1
02	01	05	02	02	Motorcycle exhaust catalytic converter	ET	CEPA 1
02	01	05	02	99	Others	ET	CEPA1
02	01	05	99	00	Others	ET	CEPA 1
02	01	06))	00	Harmful industrial gas purification equipment	ET	CEPA1
02	01	06	01		Adsorption device	ET	CEPA1
02	01	06	01	01	Fixed bed absorber	ET	CEPA1
02	01	06	01	02	Moving bed absorber	ET	CEPA1
02	01	06	01	03	Fluidized bed absorber	ET	CEPA1
02	01	06	01	99	Others	ET	CEPA1
02	01	06	02		Absorption device	ET	CEPA1
02	01	06	02	01	Spray type absorber	ET	CEPA1
02	01	06	02	02	Cyclone plate absorber	ET	CEPA1
02	01	06	02	03	Packing type absorber	ET	CEPA1
02	01	06	02	04	Spray-drying type absorber	ET	CEPA1
02	01	06	02	05	Bubble absorber	ET	CEPA1
02	01	00	02	05	Duode addition	1 11	LIAI

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			0		Ti Tittegrated te		
		Code			Designation	Product type	Environmental domain
02	01	06	02	99	Others	ET	CEPA 1
02	01	06	03	"	REDOX purification device (industrial)	ET	CEPA 1
02	01	06	03	01	High-temperature oxidation purification device	ET	CEPA 1
02	01	06	03	02	Catalytic oxidation purification device	ET	CEPA 1
02	01	06	03	03	Direct reduction purification device	ET	CEPA 1
02	01	06	03	04	Catalytic reduction purification device	ET	CEPA 1
02	01	06	03	05	Catalytic oxidation - reduction purification device	ET	CEPA 1
02	01	06	03	99	Others	ET	CEPA 1
02	01	06	04	00	Condensate purification device	ET	CEPA 1
02	01	06	05	00	Biological purification device	ET	CEPA 1
02	01	06	06	00	Irradiation purification device	ET	CEPA 1
02	01	06	07	00	Plasma purification device	ET	CEPA 1
02	01	06	08		Combined purification device	ET	CEPA 1
02	01	06	08	01	Adsorption concentration + combustion	ET	CEPA 1
02	01	06	08	99	Others	ET	CEPA 1
02	01	06	99	00	Others		
02	01	07			Universal equipment for atmospheric pollution control	CG	CEPA 1
02	01	07	01	00	Booster fan	CG	CEPA 1
02	01	07	02	00	Solid-liquid separator	CG	CEPA 1
02	01	07	03	00	Vacuum dehydrater	CG	CEPA 1
02	01	07	04	00	Explosion-proof fan	CG	CEPA 1
02	01	07	05	00	Explosion-proof vacuum pump	CG	CEPA 1
02	01	07	06	00	Explosion-proof valve	CG	CEPA 1
02	01	07	07	00	Flame arrester	CG	CEPA 1
02	01	07	08	00	Desulfurization liquid circulating pump	CG	CEPA 1
02	01	07	09	00	Agitator	CG	CEPA 1
02	01	07	10	00	Nozzle	CG	CEPA 1
02	01	07	11	00	Flue valve	CG	CEPA 1
02	01	07	12	00	Automatic control system and device	CG	CEPA 1
02	01	07	13	00	Spray device	CG	CEPA 1
02	01	07	14	00	Gas-gas (vapor) heat exchanger	CG	CEPA 1
02	01	07	99	00	Others	CG	CEPA 1
02	01	99	00	00	Others		
02	02				Medicament and materials for atmospheric pollution treatment		
02	02	01			Filtering material	CG	CEPA 1
02	02	01	01		Glass fiber filtering material	CG	CEPA 1
02	02	01	01	01	Glass fiber paper	CG	CEPA 1
02	02	01	01	02	Glass fiber cloth	CG	CEPA 1
02	02	01	01	03	Glass fiber needled felt	CG	CEPA 1
02	02	01	01	99	Others	CG	CEPA 1
02	02	01	02	0.1	Synthetic fiber filtering material	CG	CEPA 1
02	02	01	02	01	Polyamide fiber filtering material (P84)	CG	CEPA 1
02	02	01	02	02	Polyphenylene sulfide (PPS) fiber filtering material	CG	CEPA 1
02 02	02 02	01 01	02 02	03 04	Polytetrafluoroethylene (PTFE) fiber filtering material	CG	CEPA 1
02	02	01	02	99	Non-woven fabric Others	CG CG	CEPA 1 CEPA 1
02	02	01	03	00	Membrane filtering material		
02	02	01	99	00	Others	CG	CEPA 1
02	02	02	99	UU	Anti-corrosion materials for desulfurization equipment	CG	CEPA 1
02	02	02	01	00	Rubber lining	CG	CEPA1
02	02	02	02	00	Glass flake	CG	CEPA 1
02	02	02	99	00	Others	CG	CEPA 1
02	02	03	00	00	Desulfurizing agent	CG	CEPA 1
02	02	04	00	00	Desulphurization activated carbon	CG	CEPA 1
02	02	05	00	00	Denitration catalyst	CG	CEPA 1
02	02	06	00	00	Denitration catalyst carrier	CG	CEPA 1
02	02	07	00	00	Automobile-exhaust ternary catalyst	CG	CEPA 1
02	02	08	00	00	Adsorption material	CG	CEPA 1
02	02	08	01	00	Activated carbon	CG	CEPA 1
02	02	08	02	00	Activated carbon fiber	CG	CEPA 1
02	02	08	03	00	Molecular sieve	CG	CEPA 1
02	02	08	99	00	Others	CG	CEPA 1
		09	00	00	Oxidation catalyst	CG	CEPA 1
	02	()7					
02 02 02	02 02	10	00	00	Oxidation catalyst carrier	CG	CEPA 1

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		Code		13	Designation	Product	Environmental
						type	domain
02 03	02	99	00	00	Others Items for solid waste disposal		
03	01				Solid waste disposal equipment		
03	01	01			Collection and transportation equipment	CG	CEPA3
03	01	01	01		Collecting device	CG	CEPA3
03	01	01	01	01	Device for living garbage classified collection	CG	CEPA3
03	01	01	01	02	Device for medical waste classified collection	CG	CEPA3
03	01	01	01	03	Device for hazardous waste classified collection	CG	CEPA3
03	01	01	01	04	Classification marks of dangerous waste and medical waste	CG	CEPA3
03	01	01	01	05	Solid waste-weighing device	CG	CEPA3
03	01	01	01	99	Others	CG	CEPA3
03	01	01	02		Transport vehicles	CG	CEPA3
03	01	01	02	01	Urban garbage truck	CG	CEPA3
03	01	01	02	02	Special vehicle for medical wastes	CG	CEPA3
03	01	01	02	03	Special vehicle for hazardous wastes	CG	CEPA3
03	01	01	03		Transfer station device	CG	CEPA3
03	01	01	03	01	Weighing device	CG	CEPA3
03	01	01	03	02	Compression equipment	CG	CEPA3
03 03	01 01	01 01	03 03	03 99	Transshipment & transport facilities Others	CG CG	CEPA3 CEPA3
03	01	01	99	00	Others	CG	CEPAS
03	01	02	99	00	Pretreatment equipment	ET	CEPA3
03	01	02	01		Mechanical separation devices	ET	CEPA3
03	01	02	01	01	Drum screen	ET	CEPA3
03	01	02	01	02	Gravity separation device	ET	CEPA3
03	01	02	01	03	Oscillating table separator	ET	CEPA3
03	01	02	01	99	Others	ET	CEPA3
03	01	02	02		Electromagnetic separation device	ET	CEPA3
03	01	02	02	01	Electric separation device	ET	CEPA3
03	01	02	02	02	Magnetic separation device	ET	CEPA3
03	01	02	03	0.1	Crushing device	ET	CEPA3
03 03	01 01	02 02	03 03	01 02	Jaw crusher Shear crusher	ET ET	CEPA3 CEPA3
03	01	02	03	99	Others	ET	CEPA3
03	01	02	04	00	Drying equipment	ET	CEPA3
03	01	02	05	00	Compression, forming device	ET	CEPA3
03	01	02	99	00	Others	ET	CEPA3
03	01	03			Curing stabilization device	ET	CEPA3
03	01	03	01	00	Curing equipment	ET	CEPA3
03	01	03	02	00	Stabilization device	ET	CEPA3
03	01	03	99	00	Others	ET	CEPA3
03	01	04	0.1		Incineration equipment	ET	CEPA3
03	01	04 04	01	0.1	Garbage incinerator	ET	CEPA3
03 03	01 01	04	01 01	01 02	Garbage grate incinerator Garbage fluidized bed incinerator	ET ET	CEPA3 CEPA3
03	01	04	01	03	Waste pyrolysis incinerator	ET	CEPA3
03	01	04	01	99	Others	ET	CEPA3
03	01	04	02	//	Medical waste incinerator	ET	CEPA3
03	01	04	02	01	Rotary kiln incinerator	ET	CEPA3
03	01	04	02	02	A and B pyrolysis type incinerator	ET	CEPA3
03	01	04	02	99	Others	ET	CEPA3
03	01	04	03		Hazardous waste incinerator	ET	CEPA3
03	01	04	03	01	Rotary kiln incinerator	ET	CEPA3
03	01	04	03	99	Others	ET	CEPA3
03	01	04	04	0.1	Incinerator auxiliary equipment	ET	CEPA3
03	01	04	04	01	Garbage grab crane	ET	CEPA3
03 03	01 01	04 04	04 04	02 03	Combustion engine Oil tank	ET ET	CEPA3
03	01	04	04	03	Slag remover	ET	CEPA3 CEPA3
03	01	04	04	05	Waste heat recovery equipment	ET	CEPA3
03	01	04	04	06	Automatic control system	ET	CEPA3
03	01	04	04	99	Others	ET	CEPA3
03	01	04	05	-	Flue gas treatment device	ET	CEPA3
03	01	04	05	01	Dry and semi-dry method deacidification device	ET	CEPA3

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Code					Designation	Product	Environmenta
		Code			Designation	type	domain
03	01	04	05	02	Activated carbon injection device	ET	CEPA3
03	01	04	05	03	Bag dust removal device	ET	CEPA 3
03	01	04	05	04	SCR/SNCR denitration device	ET	CEPA 3
03	01	04	05	00	Others	ET	CEPA 3
03	01	04	99	00	Others	ET	CEPA 3
03	01 01	05 05	01		Biological treatment equipment	ET ET	CEPA3
03	01	05	01	01	Composting equipment Bin composting equipment	ET ET	CEPA3 CEPA3
03	01	05	01	02	Strip-composting equipment	ET	CEPA3
03	01	05	01	03	Upender	ET	CEPA3
03	01	05	01	04	Belt conveyor	ET	CEPA3
03	01	05	01	05	Ventilation equipment	ET	CEPA3
03	01	05	01	99	Others	ET	CEPA3
03	01	05	02		Anaerobic digestion device	ET	CEPA3
03	01	05	02	01	Digestion tank	ET	CEPA3
03	01	05	02	02	Gas holder	ET	CEPA3
03	01	05	02	99	Others	ET	CEPA3
03	01	05	99	00	Others		
03	01	06			Landfill treatment equipment	ET	CEPA 3
03	01	06	01		Landfill machinery	ET	CEPA 3
03	01	06	01	01	Bulldozer	ET	CEPA3
03	01	06	01	02	Compactor	ET	CEPA3
03	01	06	01	99	Others	ET	CEPA3
03	01	06	02		Leachate treatment equipment	ET	CEPA3
03	01	06	03		Equipment for landfill gas purification & utilization	ET	CEPA3
03	01	06	03	01	Landfill gas collection device	ET	CEPA3
03	01	06	03	02	Landfill gas purification device	ET	CEPA3
03	01	06	03	03	Landfill gas utilization equipment	ET	CEPA3
03	01	06	03	99	Others	ET	CEPA3
03	01	06	99	00	Others		
03	01	07	00	00	Heat-temperature sterilization & detoxification device for	ET	CEPA3
0.2	0.1	00	00	00	medical waste	TOTAL STATE OF THE	CED 4.2
03	01	08	00	00	Microwave sterilization device for medical waste	ET	CEPA3
03	01 01	09 10	00	00	Chemical disinfection facility for medical waste	ET ET	CEPA3 CEPA3
03	01	10	01	00	Waste-recycling use equipment Waste processing device	ET ET	CEPA3
03	01	10	02	00	Waste processing device Waste recycling device	ET	CEPA3
03	01	10	99	00	Others	ET	CEPA3
03	01	99	00	00	Others	LI	CELLIS
03	02	,,	00	00	Reagent and material for solid waste disposal & processing		
03	02	01			Reagent and material for landfill	CG	CEPA3
03	02	01	01	00	Geo-membrane	CG	CEPA 3
03	02	01	02	00	Bentonite liner	CG	CEPA 3
03	02	01	03	00	Geo-textile	CG	CEPA3
03	02	01	04	00	Leachate collection pipe	CG	CEPA3
03	02	01	05	00	Deodorant	CG	CEPA3
03	02	01	06	00	Fly bane	CG	CEPA3
03	02	01	99	00	Others	CG	CEPA 3
03	02	02			Materials for incineration flue gas treatment	CG	CEPA3
03	02	02	01	00	Acidic gas absorption material	CG	CEPA 3
03	02	02	02	00	Activated carbon adsorption material	CG	CEPA 3
03	02	02	03	00	Filter bag material	CG	CEPA3
03	02	02	99	00	Others	CG	CEPA 3
03	02	03			Reagent and material for curing and stabilization	CG	CEPA3
03	02	03	01	00	Cement	CG	CEPA 3
03	02	03	02	00	Chelating agent	CG	CEPA 3
03	02	03	99	00	Others	CG	CEPA 3
03	02	04			Material for garbage leachate treatment	CG	CEPA 3
03	02	04	01	00	Flocculating material	CG	CEPA 3
03	02	04	02	00	Membrane filtration material	CG	CEPA 3
03	02	04	33	00	Others	CG	CEPA3
03	02	99	00	00	Others		
04					Items for noise and vibration control		Į.

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		Co	de		Designation	Product type	Environmental domain
04	01				Noise and vibration control equipment	турс	Gomani
04	01	01			Noise control device	ET	CEPA5
04	01	01	01		Sound absorption device	ET	CEPA5
04	01	01	01	01	Perforated plate acoustical device	ET	CEPA5
04	01	01	01	02	Micro-porous plate sound-absorbing device	ET	CEPA5
04	01	01	01	03	Resonance sound-absorbing device	ET	CEPA5
04	01	01	01	04	Sheet sound-absorbing device	ET	CEPA 5
04	01	01	01	05	Membrane sound-absorbing device	ET	CEPA 5
04	01	01	01	99	Others	ET	CEPA 5
04	01	01 01	02	0.1	Sound arrester	ET	CEPA 5
04 04	01 01	01	02 02	01 02	Acoustic shield Sound insulation member, door and window	ET ET	CEPA5 CEPA5
04	01	01	02	03	Sound-proof chamber	ET	CEPA5
04	01	01	02	04	Sound-proof curtain	ET	CEPA5
04	01	01	02	05	Shading acoustic screen	ET	CEPA5
04	01	01	02	06	Light-transmitting acoustic screen	ET	CEPA5
04	01	01	02	99	Others	ET	CEPA5
04	01	01	03		Muffler device	ET	CEPA5
04	01	01	03	01	Dissipative muffler	ET	CEPA5
04	01	01	03	02	Resistance muffler	ET	CEPA5
04	01	01	03	03	Impedance muffler	ET	CEPA5
04	01	01	03	04	Gas diffusing muffler	ET	CEPA5
04	01	01	03	05	Micro perforated plate muffler	ET	CEPA 5
04	01	01	03	06	Silencing shutter	ET	CEPA 5
04 04	01 01	01 01	03 03	07 08	Electronic active sound attenuation device Motor vehicle exhaust muffler	ET ET	CEPA5 CEPA5
04	01	01	03	99	Others	ET	CEPA5 CEPA5
04	01	02	03	"	Vibration control devices	ET	CEPA5
04	01	02	01		Vibration isolation device	ET	CEPA5
04	01	02	01	01	Vibration isolation cushion	ET	CEPA 5
04	01	02	01	02	Vibration isolator	ET	CEPA 5
04	01	02	01	03	Flexible connector, soft joint	ET	CEPA5
04	01	02	01	04	Elastic supports and hangers	ET	CEPA5
04	01	02	01	99	Others	ET	CEPA5
04	01	02	02		Damping device	ET	CEPA5
04	01	02	02	01	Conventional damper	ET	CEPA5
04	01	02	02	02	Tuned mass damper	ET	CEPA5
04	01	02	02	03	Damping energy dissipator	ET	CEPA5
04	01	02	02	99	Others	ET	CEPA 5
04	01	02	99	00	Others	ET	CEPA5
04	01	99	00	00	Others		
04	02	0.1	00	00	Noise and vibration control material	00	CED A 5
04 04	02 02	01 02	00 00	00	Sound-absorbing material Sound insulating material	CG CG	CEPA5 CEPA5
04	02	02	00	00	Vibration isolation material	CG	CEPA5
04	02	99	00	00	Others	CG	CELAS
05	02	,,	00	00	Radiation protection product		
05	01	00	00	00	Radioactive pollution protection product	ET	CEPA7
05	02	00	00	00	Electromagnetic wave pollution protection product	ET	CEPA7
05	99	00	00	00	Others		
06	00	00	00	00	Product for soil pollution control and restore	ET	CEPA4
07					Environmental monitoring instrument & equipment		
07	01				Laboratory equipment		
07	01	01			General instrument & equipment	CG	CEPA 9
07	01	01	01	00	Atomic absorption spectrophotometer	CG	CEPA 9
07	01	01	02	00	High performance liquid chromatography (HPLC)	CG	CEPA9
07 07	01 01	01 01	03 04	00 00	Gas chromatography Liquid chromatograph/mass spectrometer (LC-MS)	CG CG	CEPA9 CEPA9
07	01	01	05	00	Gas chromatography-Mass spectrometer (LC-MS)	CG	CEPA9
07	01	01	06	00	Atomic fluorescence analyzer	CG	CEPA9
07	01	01	07	00	Atomic absorption spectrometer	CG	CEPA9
07	01	01	08	00	Inductively coupled plasma mass spectrometer	CG	CEPA9
07	01	01	99	00	Others		
07	01	02			Special device for environmental monitoring	ET	
07	01	02	01	00	Water sampler	ET	CEPA4

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		Co	de		Designation	Product	Environmental
						type	domain
07	01	02	02	00	Atmospheric sampler	ET	CEPA 1
07	01	02	03	00	COD digestion instrument	ET	CEPA 2
07	01	02	04	00	TOC detector	ET	CEPA 2
07	01	02	05	00	Infrared oil meter	ET	CEPA 2
07	01	02	99	00	Others	ET	CEPA 2
07	01	99	00	00	Others		
07	02	0.1			Portable emergency instrument & equipment	P.T.	GED 4.4
07	02	01	0.1	00	Water tester	ET	CEPA 4
07	02	01	01	00	Gas chromatography-Mass spectrometry (GC-MS)	ET	CEPA 4
07	02	01	02	00	Organochlorine tester	ET	CEPA4 CEPA4
07	02 02	01	03 04	00 00	COD tester	ET ET	_
07	02	01 01	05	00	Multi-parameter water quality analyzer Heavy metal tester		CEPA 4
07	02			00		ET ET	CEPA 4
07 07	02	01 01	06 99	00	Biological toxicity tester Others	ET	CEPA4 CEPA4
07	02	02	99	00	Gaseous mass tester	ET	CEPA 1
07	02	02	Ω1	00		ET	CEPA 1
07	02	02	01 02	00	Multi-parameter gas detector CO analyzer	ET	CEPA 1
07	02	02	03	00	Formaldehyde tester	ET	CEPA 1
07	02	02	03	00	TVOC detector	ET	CEPA 1
07	02	02	05	00	Ozonograph	ET	CEPA 1
07	02	02	06	00	CO ₂ analyzer	ET	CEPA 1
07	02	02	07	00	Fourier infrared gas detector	ET	CEPA 1
07	02	02	08	00	C16 tester	ET	CEPA 1
07	02	02	99	00	Others	ET	CEPA 1
07	02	03	77	00	Noise & vibration tester	ET	CEPA 5
07	02	03	01	00	Noise tester	ET	CEPA5
07	02	03	02	00	Vibration tester	ET	CEPA5
07	02	03	99	00	Others	ET	CEPA5
07	02	03	"	00	Soil tester	ET	CEPA4
07	02	04	01	00	Fourier infrared chemical detector	ET	CEPA4
07	02	04	99	00	Others	ET	CEPA4
07	02	05	77	00	Radioactive & electromagnetic wave tester	ET	CEPA7
07	02	05	01	00	Multi-purpose radiometer	ET	CEPA7
07	02	05	02	00	Electromagnetic wave meter	ET	CEPA 7
07	02	05	99	00	Others	ET	CEPA7
					Complete instrument and equipment for		
07	02	06	00	00	emergency vehicle	ET	CEPA9
07	02	99	00	00	Others		
07	03		00	00	Online monitoring instrument		
07	03	01			Water quality analyzer	ET	CEPA4
07	03	01	01	00	Five-parameter analyzer	ET	CEPA4
07	03	01	02	00	COD analyzer	ET	CEPA4
07	03	01	03	00	Ammonia nitrogen analyzer	ET	CEPA 4
07	03	01	04	00	Total-phosphorus analyzer	ET	CEPA4
07	03	01	05	00	Total nitrogen analyzer	ET	CEPA4
07	03	01	06	00	Oil analyzer	ET	CEPA4
07	03	01	07	00	Heavy-metal analyzer	ET	CEPA4
07	03	01	08	00	TOC analyzer	ET	CEPA4
07	03	01	09	00	VOC detector	ET	CEPA4
07	03	01	99	00	Others	ET	CEPA4
07	03	02			Flue gas analyzer	ET	CEPA 1
07	03	02	01	00	CEMS	ET	CEPA 1
07	03	02	02	00	SO ₂ analyzer	ET	CEPA 1
07	03	02	03	00	NOx analyzer	ET	CEPA 1
07	03	02	04	00	Particle analyzer	ET	CEPA 1
07	03	02	05	00	Mercury CEMS	ET	CEPA 1
07	03	02	06	00	Ozone analyzer	ET	CEPA 1
07	03	02	07	00	VOC analyzer	ET	CEPA 1
07	03	02	08	00	Dioxin analyzer	ET	CEPA 1
07	03	02	99	00	Others	ET	CEPA 1
07	03	03			Air analyzer	ET	CEPA 1
07	03	03	01	00	Automatic air monitoring system	ET	CEPA 1
07	03	03	02	00	SO ₂ analyzer	ET	CEPA 1
07	03	03	03	00	NOx analyzer	ET	CEPA 1
07	03	03	04	00	CO analyzer	ET	CEPA 1
07	03	03	05	00	Ozone analyzer	ET	CEPA 1
07	03	03	06	00	Particle analyzer	ET	CEPA 1
07	03	03	07	00	Benzo [a] pyrene analyzer	ET	CEPA 1

SS Environmental specific services
CS Connected services

ET End-of-pipe technologies
AG Adapted goods
IT Integrated technologies

CG Connected goods

טי	Gonnected goods II Integrated technologies							
	Code				Designation	Product type		
07	03	03	08	00	Dioxin analyzer	ET	CEPA 1	
07	03	03	99	00	Others	ET	CEPA 1	
07 07	03 03	04 04	01	00	Sampler Water sampler	CG CG	CEPA4	
07	03	04	02	00	Dust sampler	CG	CEPA 1	
07	03	04	03	00	Flue gas sampler	CG	CEPA 1	
07	03	04	04	00	Precipitation sampler	CG	CReMA 10	
07	03	04	05	00	Soil sampler	CG	CEPA4	
07	03	04	99	00	Others			
07	03	05	00	00	Data acquisition instrument	CG	CEPA 9	
07	03	06			Flow meter	CG	CEPA4	
07	03	06	01	00	Electromagnetic flowmeter	CG	CEPA4	
07	03 03	06 06	02 99	00 00	Liquid level meter Others	CG	CEPA4	
07 07	03	99	00	00	Others			
07	04	00	00	00	Sensor	CG	CEPA 9	
07	05	00	00	00	Remote sensing monitoring equipment	CG	CEPA 6	
07	06	00	00	00	Ecological monitoring system	CG	CEPA 6	
07	99	00	00	00	Others			
08					Equipment to manufacture the resource-recycling product			
08	01				Equipment to manufacture the mineral resource-recycling product			
08	01	01	00	00	Equipment to manufacture the energy resource-recycling product	IT	CReMA 14	
08	01	02	00	00	Equipment to manufacture the metallic mineral-recycling product	IT	CReMA 14	
08	01	03	00	00	Equipment to manufacture the non-metallic mineral- recycling product	IT	CReMA 14	
08	01	99	00	00	Others	IT	CReMA 14	
00	02				Equipment to manufacture the industrial "three wastes"-			
08	02				recycling product			
08	02	01			Equipment to manufacture the solid waste-recycling product	ET	CEPA3	
08	02	01	01	00	Equipment to manufacture the industrial waste- recycling product	ET	CEPA3	
08	02	01	02	00	Equipment to manufacture the construction and road waste-recycling product	ET	CEPA3	
08	02	01	03	00	Equipment to manufacture the agricultural waste- recycling product	ET	CEPA3	
08	02	01	04	00	Equipment to manufacture the forestry waste-recycling Product	ET	CEPA3	
08	02	01	05	00	Equipment to manufacture the domestic garbage- recycling product	ET	CEPA3	
08	02	01	06	00	Equipment to manufacture the sewage-treatment- plant-sludge-recycling product	ET	CEPA2	
08	02	01	07	00	Equipment to manufacture the marine/aquatic-product-	ET	CEPA 3	
					processing-waste-recycling product			
08 08	02 02	01 02	99 00	00	Others Equipment to manufacture the waste-gas-recycling	ET	CEPA 1	
					product Equipment to manufacture the wastewater (solution)-			
08	02	03	00	00	recycling product	ET	CEPA 2	
08	03				Equipment to manufacture the renewable resource- recycling product			
08	03	01	00	00	Equipment to manufacture the waste metal-recycling product	IT	CReMA 14	
08	03	02	00	00	Equipment to manufacture the waste electronics &	IT	CReMA 14	
08	03	03	00	00	appliance-recycling product Equipment to manufacture the waste paper-recycling	IT	CReMA 11B	
08	03	04	00	00	product Equipment to manufacture the waste plastic-recycling	IT	CReMA 13C	
					Equipment to manufacture the junked tire-recycling			
08	03	05	00	00	product Equipment to manufacture the yanket like recycling Pagingment to manufacture the waste timber-recycling	IT	CReMA 13C	
08	03	06	00	00	product Equipment to manufacture the waste textile-recycling	IT	CReMA 11B	
08	03	07	00	00	product	IT	CReMA 16	
08	03	08	00	00	Equipment to manufacture the cullet-recycling product	IT	CReMA 14	
08	03	09	00	0	Equipment to manufacture the waste ceramics-recycling	IT	CReMA 14	
				0	product		0.100.71111	
08	03 99	99	00	00	Others Others			
08 99	00	00	00	00				
99	00	00	00	00	Others	l	l	

ANNEX 4. CORRESPONDENCE TABLE OF EGSS AND THE ENVIRONMENT-FRIENDLY PRODUCTS IN CHINA'S ENVIRONMENTAL INDUSTRY SURVEY

SS Environmental specific services

CS Connected services

CG Connected goods

ET End-of-pipe technologies

Integrated technologies

AG Adapted goods

Environmental Code Designation Product type domain 01 Environment label product Non-EGSS 01 01 Category of product to protect human health 01 Non-EGSS 01 01 Microwave oven 01 Architectural plastic tubing Non-EGSS 01 02 01 01 03 Lightweight wall board Non-EGSS 01 01 04Building block Non-EGSS 01 01 05 Water nozzle Non-EGSS 01 01 06 Wool textiles Non-EGSS 01 07 Footwear Non-EGSS 01 01 01 80 Ecological textile Non-EGSS Mosquito coils 01 01 09 Non-EGSS 10 Air incense stick Non-EGSS 01 01 01 01 11 Stationery Non-EGSS 01 01 12 Inkjet cartridge Non-EGSS 13 Toner cartridge Non-EGSS 01 01 01 01 14 Inkjet ink Non-EGSS 01 01 Offset ink Non-EGSS 15 01 01 16 Gravure ink and flexo ink Non-EGSS 01 01 17 Insecticidal aerosol Non-EGSS 01 01 18 Mothproof agent Non-EGSS 01 01 19 Planographic product Non-EGSS Category of product for environmental protection CEPA9 01 02 AG 01 02 01 Industrial & commercial refrigeration equipment CEPA9 AG 01 02 02 Light-duty vehicle AG CEPA9 02 03 CEPA9 01 Dry type transformer AG 01 02 04 Wire and cable AG CEPA9 02 05 CEPA9 01 Dry battery AG 01 02. 06 Digital camera CEPA 9 AG 01 02 07 Waterproofing coils AG CEPA9 02 80 Pre-mixed concrete CEPA9 01 AG 01 02 09 Rigid waterproof material CEPA9 AG01 02 10 Non-asbestos building product AG CEPA9 02 CEPA9 01 11 Leather AG 02 CEPA 9 01 Luggage, bag, pocket 12 AG 01 02 13 CEPA9 Copy paper AG 01 02 14 Adhesive AG CEPA9 01 02 15 Detergent CEPA9 AG CEPA 1.1.2 03 Category of product for climate change response 01 AG 01 03 01 Printer, fax machine and multi-function printer AG CEPA 1.1.2 Digital multi-function photocopying facility CEPA 1.1.2 01 03 02 AG Digital integration stenograph CEPA 1.1.2 01 03 03 AG 01 03 04 Rechargeable battery AG CEPA 1.1.2 Household refrigerating appliance 01 03 05 AG CEPA 1.1.2 Microcomputer, display CEPA 1.1.2 01 03 06 AG 01 03 07 Mobile hard disk AG CEPA 1.1.2 01 03 08 Server CEPA 1.1.2 AG Color TV broadcast receiver 09 CEPA 1.1.2 01 03 AG CEPA 1.1.2 01 03 10 Aerosol AG 01 03 11 Fire extinguishing agent AG CEPA 1.1.2 03 Ozone-depleting substances alternatives CEPA 1.1.2 01 12 AG Non-EGSS 01 04 Category of product to protect room environment 01 04 01 Indoor air conditioner Non-EGSS Household electric washing machine 01 04 02 Non-EGSS Man-made board and its products Non-EGSS 04 03 01 01 04 04 Wooden door Non-EGSS 04 05 Furniture Non-EGSS 01 Kitchen cabinet 01 04 06 Non-EGSS 01 04 07 Wallpaper Non-EGSS Sanitary ceramics 01 04 08 Non-EGSS **09** 01 04Ceramic tile Non-EGSS 01 04 10 Water-based paint Non-EGSS 01 04 11 Solvent wood coating for indoor decoration Non-EGSS 01 04 Waterproof coatings Non-EGSS 12 01 05 Category of clean energy product AG CReMA 13A 01 Solar thermal collector 01 AG CReMA 13A

SS Environmental specific services
CS Connected services

ET End-of-pipe technologies
AG Adapted goods
IT Integrated technologies.

CG Connected goods

	Code		Designation	Product type	Environmental domain
01	05	02	Household solar water-heating system	AG	CReMA 13A
01	99	0.1	Others	4.0	CD 144 11D
01	99	01	Plastic door and window	AG	CReMA 11B
01	99 99	02	Steel door	AG	CReMA 11B
01 01	99 99	03 04	Heating radiator Renewable toner cartridges	AG AG	CReMA 13B CReMA 13C
01	99	05	Recycled paper product	AG AG	CReMA 11B
02	,,	03	Energy-saving product	AG	CReMA 13B
02	01		Office facilities	AG	CReMA 13B
02	01	01	Computer	AG	CReMA 13B
02	01	02	Fax machine	AG	CReMA 13B
02	01	03	Printer	AG	CReMA 13B
02	01	04	Digital multifunctional office facilities	AG	CReMA 13B
02	01	05	Photocopier	AG	CReMA 13B
02	01	06	Display	AG	CReMA 13B
02	01	07	Scanner	AG	CReMA 13B
02 02	01 01	08 09	Server	AG AG	CReMA 13B CReMA 13B
02	02	09	Digital projector Electrical appliances	AG AG	CReMA 13B
02	02	01	Household microwave oven	AG	CReMA 13B
02	02	02	Water-storage type electric water heater	AG	CReMA 13B
02	02	03	Household automatic electric cooker	AG	CReMA 13B
02	02	04	Household electromagnetic range	AG	CReMA 13B
02	02	05	Unitary air conditioner	AG	CReMA 13B
02	02	06	Water chiller	AG	CReMA 13B
02	02	07	LiBr absorption chiller	AG	CReMA 13B
02	02	08	Water dispenser	AG	CReMA 13B
02	02	09	Split type air conditioning (heat pump) unit	AG	CReMA 13B
02	02	10	Water source heat pump unit	AG	CReMA 13B
02	02	11	Color TV broadcast receiver	AG	CReMA 13B
02	02	12	Household refrigerator	AG	CReMA 13B
02	02	13	Indoor air conditioner Household instantaneous gas water heater and gas water	AG	CReMA 13B
02	02	14	heater for heating	AG	CReMA 13B
02	02	15	Speed-adjustable indoor air conditioner	AG	CReMA 13B
02	02	16	Refrigerating compressor for air conditioner	AG	CReMA 13B
02	02	17	Commercial, industrial or equivalent	A.C.	CD-MA 12D
02	02	17	air-source-heat-pump (ASHP) water heater	AG	CReMA 13B
02	02	18	Energy-saving product for AC fan	AG	CReMA 13B
02	02	19	Unitary air conditioner for computer and data-processing	AG	CReMA 13B
			room		
02	02	20	Flat-panel TV	AG	CReMA 13B
02	02	21	Digital TV receiver (STB)	AG	CReMA 13B
02 02	02 02	22 23	Commercial water boiler Commercial electromagnetic range	AG AG	CReMA 13B CReMA 13B
02	02	24	Household range hood	AG AG	CReMA 13B
			Computer-controlled high-speed lockstitch sewing		
02	02	25	machine	AG	CReMA 13B
02	03		Lighting product	AG	CReMA 13B
02	03	01	Road lighting system	AG	CReMA 13B
02	03	02	Common self-ballast fluorescent lamp	AG	CReMA 13B
02	03	03	Common double-capped fluorescent lamp	AG	CReMA 13B
02	03	04	Single- capped fluorescent lamp	AG	CReMA 13B
02	03	05	High pressure sodium lamp	AG	CReMA 13B
02	03	06	Metallic halide lamp	AG	CReMA 13B
02	03	07	Ballast of tube-type fluorescent lamp	AG	CReMA 13B
02	03	08	Ballast of high-pressure sodium lamp	AG	CReMA 13B
02	03	09	Ballast of metallic halide	AG	CReMA 13B
02 02	03 03	10 11	Road/tunnel LED lighting product LED down lamp	AG AG	CReMA 13B CReMA 13B
02	03	12	Reflective self-ballasted LED lamp	AG AG	CReMA 13B
02	03	13	Common non-directional self-ballasted LED lamp	AG AG	CReMA 13B
		13	Mechanical & electrical product and power transmission		
02	04		& transformation equipment	AG	CReMA 13B
		01	Single output AC-DC and AC-AC external power	AG	CReMA 13B

SS Environmental specific services

CS Connected services

CG Connected goods

ET End-of-pipe technologies
AG Adapted goods
IT Integrated technologies

	Code		Designation	Product type	Environmental domain				
02	04	02	Switching power supply for microcomputer	AG	CReMA 13B				
02	04	03	Cable tray	AG	CReMA 13B				
02	04	04	Electric power fittings	AG	CReMA 13B				
02	04	05	LV distribution power-saving device	AG	CReMA 13B				
02	04	06	Uninterruptible power supply	AG	CReMA 13B				
02	04	07	Variable-frequency-speed-control power-saving device for loads, such as fan and pump	AG	CReMA 13B				
02	04	08	Positive displacement type air compressor	AG	CReMA 13B				
02	04	09	Ventilator	AG	CReMA 13B				
02	04	10	Small and medium sized three-phase asynchronous	AG	CReMA 13B				
			motor						
02	04	11	Centrifugal water pump	AG	CReMA 13B				
02	04	12	3-phase distribution transformer	AG	CReMA 13B				
02	04	13	Centrifugal anti-corrosion pump	AG	CReMA 13B				
02	04	14	Intensive-type insulated bus duct	AG	CReMA 13B				
02	04	15	Power socket and converter	AG	CReMA 13B				
02	04	16	3-phase permanent magnet synchronous motor	AG	CReMA 13B				
02 02	04 04	17 18	Oil-immersed power transformer AC contactor	AG AG	CReMA 13B				
02	04	19	Small power motor	AG AG	CReMA 13B CReMA 13B				
02	04	20	Micro hydro power-generating equipment	AG AG	CReMA 13B				
02	05	20	Building energy-saving product	AG AG	CReMA 13B				
02	05	01	Building door and window	AG	CReMA 13B				
02	05	02	Hollow glass	AG	CReMA 13B				
02	05	03	Al-alloy construction profiles	AG	CReMA 13B				
02	05	04	Inorganic insulation product	AG	CReMA 13B				
02	06	00	Vehicle	AG	CReMA 13B				
02	07		New-energy product	AG	CReMA 13B				
02	07	01	Solar water-heating system	AG	CReMA 13B				
02	99		Others	AG	CReMA 13B				
02	99	01	Gas cooking appliance	AG	CReMA 13B				
03			Water-saving product	AG	CReMA 10				
03	01		Industrial water-saving product	AG	CReMA 10				
03	01	01	Water resources management system	AG	CReMA 10				
03	01	02	Cooling tower	AG	CReMA 10				
03	01	03	Plumbing internal-threaded joint	AG	CReMA 10				
03	01	04	Air-cooled heat exchanger	AG	CReMA 10				
03	01	05	Tubular product	AG	CReMA 10				
03	01	06	2- phosphoric acid group, 1, 2, 4-trihydroxy butane	AG	CReMA 10				
03	01	07	Acrylic acid/acrylic ester copolymer	AG	CReMA 10				
03 03	01 01	08 09	Isothiazolinone derivate	AG AG	CReMA 10 CReMA 10				
03	01	10	IC card cold-water meter Spraying condenser for ammonia refrigeration unit	AG AG	CReMA 10				
03	01	11	Butterfly valve	AG AG	CReMA 10				
03	01	12	Joint sealing ring of supply, drainage and sewage pipe	AG	CReMA 10				
03	02	12	Agricultural water-saving product	AG	CReMA 10				
03	02	01	Rotary nozzle	AG	CReMA 10				
03	02	02	Non-rotary nozzle	AG	CReMA 10				
03	02	03	Drip irrigation belt (tube)	AG	CReMA 10				
03	02	04	Small light sprinkler	AG	CReMA 10				
03	02	05	Large electric sprinkler	AG	CReMA 10				
03	02	06	Automatic self-cleaning screen filter	AG	CReMA 10				
03	03		Unconventional water resource product	AG	CReMA 10				
03	03	01	Hollow fiber ultra-filtration membrane module	AG	CReMA 10				
03	03	02	Reverse osmosis desalination device	AG	CReMA 10				
03	03	03	Reclaimed water utilization device	AG	CReMA 10				
03	03	04	Rotary decantation washer	AG	CReMA 10				
03	03	05	Grille decontamination machine	AG	CReMA 10				
03	04		Urban life (services) water-saving product	AG	CReMA 10				
03	04	01	Water nozzle	AG	CReMA 10				
03	04	02	Constant temperature water nozzle	AG	CReMA 10				
03	04	03	Unit bathroom	AG	CReMA 10				
03	04	04	Cistern fittings	AG	CReMA 10				
03	04	05	Toilet flush valve	AG	CReMA 10				
03	04	06	Shower	AG	CReMA 10				

ET End-of-pipe technologies AG Adapted goods IT Integrated technologies. SS Environmental specific services
CS Connected services **CG** Connected goods

	Code		Designation	Product type	Environmental
			9	71	domain
03	04	07	Toilet appliance	AG	CReMA 10
03	04	08	Industrial washing machine	AG	CReMA 10
03	04	09	Household electric washing machine	AG	CReMA 10
03	04	10	Shower room	AG	CReMA 10
03	04	11	Laundry detergent	AG	CReMA 10
03	04	12	Sprinkler	AG	CReMA 10
03	04	13	Liquid detergent	AG	CReMA 10
03	04	14	Fabric rinsing product	AG	CReMA 10
04			Organic product	AG	CEPA4
04	01		Organic product production	AG	CEPA4
04	01	01	Plants (including wild plant acquisition)	AG	CEPA4
04	01	02	Livestock and poultry product	AG	CEPA4
04	01	03	Aquatic product	AG	CEPA4
04	02		Organic product processing	AG	CEPA4
04	02	01	Meat product and by-product processing	AG	CEPA4
04	02	02	Aquatic product processing	AG	CEPA4
04	02	03	Processing or storage of vegetables	AG	CEPA4
04	02	04	Fruit juice and vegetable juice	AG	CEPA4
04	02	05	Processing and preservation of fruit and nut	AG	CEPA4
04	02	06	Vegetable oil processing	AG	CEPA4
04	02	07	Vegetable oil processing by-product	AG	CEPA4
04	02	08	Processed liquid milk or cream	AG	CEPA4
04	02	09	Other dairy	AG	CEPA4
04	02	10	Grain grinding	AG	CEPA4
04	02	11	Starch and starch product	AG	CEPA4
04	02	12	Processing feed	AG	CEPA4
04	02	13	Baked goods	AG	CEPA4
04	02	14	Grain powder products, such as noodles	AG	CEPA4
04	02	15	Food without definite classification	AG	CEPA4
04	02	16	Liquor	AG	CEPA4
04	02	17	The Other natural fiber for spinning	AG	CEPA4
04	02	18	Garment	AG	CEPA4

ANNEX 5. CORRESPONDENCE TABLE OF EGSS AND THE RESOURCE-RECYCLING PRODUCTS IN CHINA'S ENVIRONMENTAL INDUSTRY SURVEY

SS Environmental specific services

CS Connected services

CG Connected goods

ET End-of-pipe technologies AG Adapted goods IT Integrated technologies

Cod	le		Designation	Description	Product type	Environmental domain
01			Comprehensive utilization of mineral resources		AG	
01	01	00	Comprehensive utilization of energy sources	Including development & utilization of coal seam gas, mine gas, coal -bearing oil shale, coal -bearing kaolin associated and remnant ore; r ecycling of oil -field associated gas and acid gases; utilization of oil sands and oil shale; comprehensive utilization of sulfur in natural gas; comprehensive exploitation and utilization of shale gas and tight sandstone gas, etc	AG	CReMA 13C
01	02	00	Comprehensive utilization of metallic minerals	Including comprehensive utilization of ferrous metallic mineral, non -ferrous metallic mineral, precious metal metallic mineral, rare and rare earth metals Including comprehensive utilization of	AG	CReMA 14
01	03	00	Comprehensive utilization of nonmetallic minerals	non-metallic minerals for chemical industry, such as phosphorus mineral, pyrite and paigeite; comprehensive utilization of non -metallic minerals for building materials, such as graphite, kaolin, benton ite, talc and fluorite	AG	CReMA 14
01	99	00	Others	kaomi, benton ne, tare and morne		
02			Comprehensive utilization of industrial "three wastes"			
02	01		Comprehensive utilization of solid waste			
02	01	01	Comprehensive utilization of industrial waste	Including comprehensive u tilization of tailings, gangue, fly ash, desulfuration gypsum, phosphogypsum, red mud, chemical residues, smelting slag and industrial wastes	AG	СЕРА 3
02	01	02	Comprehensive utilization of building and road waste	Including utilization of construction an d road waste to produce building materials, pavement materials and backfill	AG	СЕРА 3
02	01	03	Agricultural waste recycling utilization	Including straw recycling, breeding waste to compost and make feedstuff, methane, etc	AG	CEPA 3 & CReMA 13A
02	01	04	Forestry waste recycling utilization	Including recycling of forestry residues, secondary fuelwood, bagasse and so on	AG	CReMA 11B & CReMA 13A
02	01	05	Domestic garbage recycling utilization	Including harmless treatment and utilization of waste packaging, kitchen waste, garden waste and manure, etc	AG	СЕРА 3
02	01	06	Comprehensive utilization of sludge from wastewater treatment plant	Including harmless disposal and recycling of sludge,	AG	СЕРА 2
02	01	07	Comprehensive utilization of waste from marine a nd	Including comprehensive utilization of waste from marine and aquatic product processing, such as chitin and chitin	AG	СЕРА 3
02	01	99	aquatic product processing Others	processing, such as chitin and chitin		

ANNEX 5. CORRESPONDENCE TABLE OF EGSS AND THE RESOURCE-RECYCLING PRODUCTS IN CHINA'S **ENVIRONMENTAL INDUSTRY SURVEY** (CONTINUED)

SS Environmental specific services
CS Connected services

CG Connected goods

ET End-of-pipe technologies
AG Adapted goods
IT Integrated technologies.

Coc	le		Designation	Description	Product type	Environmental domain
02	02	00	Comprehensive utilization of waste gas	Including recycling of coke ov en gas, blast furnace gas and converter gas; recycling and comprehensive utilization of useful components in the waste gas from the electric power, petroleum, and chemical industry, etc; power generation with waste heat and pressure from the industrial ki ln, and utilization of waste	AG	CEPA 1, CReMA 13A
02	03	00	Comprehensive utilization of waste water (solution)	heat from low temperature wastewater, etc Including recycling of industrial waste water and urban sewage, reclamation of mine water, waste engin e oil, oil - extraction wastewater, waste vegetable oil, waste acid, and waste alkali solution	AG	СЕРА 2
03			Renewable resources recycling	Including diamontling arrishing and		
03	01	00	Scrap metal recycling	Including dismantling, crushing and processing of waste or old vehicle, vessel, agriculture and engineering machinery; dismantling, crushing and separation of waste power battery and lead -acid battery, and recycling of waste solution; remanufacturing of auto parts, engineering machinery, machine tools, etc	AG	CReMA 14
03	02	00	Recycling of waste electric and electronic products	Including recycling, sorting and dismantling of waste electric and electronic products for full utilization and harmless treatment; disassembling of complete machine and circuit board recycling	AG	CReMA 14
03	03	00	Waste paper recycling	Including waste paper recycling, sorting, deinking, processing and utilization	AG	CReMA 11B
03	04	00	Waste plastics recycling	Including waste plastics recycling, sorting, cleaning, sorting and utilization	AG	CReMA 13C
03	05	00	Junked tire recycling	Including junked tire refurbishing, utilizing rubber powder to produce the modified asphalt, etc	AG	CReMA 13C
03	06	00	Waste wood recycling	Including recycling of waste wood and wood products	AG	CReMA 11B
03	07	00	Waste textile recycling	Including old textile recycling, sorting, processing and utilization	AG	CReMA 16
03	08	00	Waste glass recycling	Including waste glass recycling, sorting, processing and utilization	AG	CReMA 14
03	09	00	Ceramic waste recycling	Including c eramic waste recycling, sorting, processing and utilization	AG	CReMA 14
03 99	99 00	00 00	Others Others	garage processing and annihilation		

ANNEX 6. QUESTIONNAIRE OF CHINA'S ENVIRONMENTAL INDUSTRY SURVEY: THE BASIC INFORMATION ON LEGAL ENTITY OF ENVIRONMENTAL PROTECTION **INDUSTRY (HCHJ 1-1)**

Form No.: HCHJ 1-1

Prepared by: Ministry of Environmental Protection National

Development and Reform Commission Approval authority: National Bureau of Statistics

Approval No.: GTZH [2012] No. 37

2011 Date of expiry: March 31st, 2013

01	Organization Code		02	Full name (Stamp)				
	Legal representative (Principal		04	Starting year of the environmental protection and				
03		,		related industries : \Box	-			
05	Registered address	Adm	inistrative	division code of registe				
06	Registered capital (RMB ten	thousand)						
07	Location of the entity:	Adm	inistrative	division code of the en	tity ooooo			
08	Name of the park located	Reported co	de of categ	gory of such park $\Box\Box\Box$				
	Contacts:	_						
	Area code]	Email:					
	Tel:							
09	Ext.:							
09	obile	<u> </u>	Website:					
	Fax							
	Fax ext.							
	Post code							
10	Industry category Industry c	code DDD Name of	industry					
	Organizational type $\Box\Box$							
11	10 Enterprise 20 Public ins	stitution 40 Social org	anization	51 Private non-enterp	orise unit 52 Foundation			
	90 Other organization							
	Category of applicable accou	· .	.•					
12	1. Enterprises accounting sys		ccounting	system;				
12	3. Folk non-profit organization accounting system							
13	Enterprise registration type Domestic enterprise		Enterprise	e with investment	Enterprises with foreign			
	Domestic enterprise		_	g Kong, Macao or	investment			
			Taiwan	g Kong, wacao oi	mvestment			
	110 State-owned 1:	59 Other Co., Ltd.		venture enterprise	310 Sino-foreign joint			
	enterprise	5) Other Co., Etc.		estment from Hong	venture			
				cao, or Taiwan)				
	120 Collective 10	60 Joint stock		erative enterprise (with	320 Sino-foreign			
	enterprise co	ompany		t from Hong Kong,	cooperative enterprise			
	_		Macao, or	Taiwan)				
	130 Joint -stock 1	71 Private owned	230 Sole	Hong Kong, Macao, or	Foreign-funded			
		nterprise	Taiwanfu	nded enterprise	enterprise			
	141 State-owned 1	72 Private partnership	240 Hong	Kong, Macao, or	340 Foreign investment			
	r	irm		vestment CoLtd	Co., Ltd			
	3	73 Private limited		Hong Kong, Macao,	390 Other foreign -invested			
		ability company	or Taiwar	investment Co., Ltd	enterprise			
		74 Private joint stock						
		ompany						
	enterprise	00 Other enterprise						
	149 Other associated 19 enterprise	90 Other enterprise						
	151 Wholly state-							
	owned company							
	Enterprise ownership : 1. St	tate-owned holding: 2. Co	ollective h	olding: 3. Private holdir	ng: 4 Hong Kong, Macao or			
14	Taiwan holding; 5.foreign ho			6, - ,	<i>J.</i> - <i>JG</i> ,			
15			tion; 2. By	-business environmenta	al protection			
16	Nature of industry 1. Special environmental protection; 2. By-business environmental protection Listed status: 1. Unlisted: 2. Listed: Name of stock exchange Listed time stock code:							

ANNEX 6. QUESTIONNAIRE OF CHINA'S ENVIRONMENTAL INDUSTRY SURVEY: THE BASIC INFORMATION ON LEGAL ENTITY OF ENVIRONMENTAL PROTECTION INDUSTRY (HCHJ 1-1) (CONTINUED)

	Environmental protection and related Environmental services
	product production & operation
	Environmental protection and related product category (multiple choice available):
20	1. Environmental protection product (including equipment to produce the resource-recycling product);
	2. Environment-friendly product; 3. Resource-recycling product
	Environmental services:
	1. Service category (multiple choice available): □□
	01 Pollution control services and environmental protection facility operation;
	02 Environmental engineering construction;
	03 Environmental technology research, development and promotion;
	04 Environmental policy planning consultation;
	05 Environmental audit and audit certification;
	06 Environmental engineering consultation;
	07 Environmental assessment and evaluation;
	08 Environmental supervision;
21	09 Environmental education and training;
	10 Environmental information services;
	11 Environmental monitoring;
	12 Environmental trade services; 13 Environmental financial services;
	14 Ecological restoration and ecological protection;
	15 Other environment services
	Services field (multiple choice available): □□
	01 Water pollution treatment; 02 Atmospheric pollution control; 03 Solid waste disposal;
	04 Noise & vibration control; 05 Prote ction of radiation pollution; 06 Soil pollution control & restoration 07
	Cleaner production; 08 Resource recycling; 09 Environment-friendly service;
	10 Other (please specify)
	Qualification for general contracting enterprise engaged in the municipal utilities engineering:
22	1. Premium; 2. Level I; 3. Level II; 4. Level III; Certificate No.:
23	Qualification for professional contracting enterprise engaged in the environmental protection engineering: 1.
د.	Premium; 2. Level I; 3. Level II; 4. Level III; Certificate No.:
24	Qualification for environmental impact assessment of construction project:
	1. Class A; 2. Class B; Certificate No.:
	Qualification for special project of environmental engineering design: (multiple choice available): $\Box\Box$
	1. Water pollution control engineering: □□ 01 Class A 02 Class B Certificate No.:
5	2.Atmosphere pollution control engineering: $\Box\Box$ 01 Class A 02 Class B Certificate No.:
	3. Solid waste disposal project : □□ 01 Class A 02 Class B Certificate No.:
	4.Physical pollution control engineering: □□ 01 Class A 02 Class B Certificate No.:
	5.Pollution restoration project: $\Box\Box$ 01 Class A 02 Class B Certificate No.:
26	Qualification for environmental engineering consultation (ecological construction and environmental engineering):
-	Class A 2 Class B 3 Class C Certificate No.: O 1/2 of a 1/2
	Qualification for operation of the environmental pollution control facilities: (multiple choice available):
	1. Domestic sewage : D 01 Class A 02 Class B Certificate No.:
	2. Industrial wastewater : □□ 01 Class A 02 Class B Certificate No.: 3. Dust removed desulfurization and depitration: □□ 01 Class A 02 Class B Certificate No.:
7	 Dust removal, desulfurization and denitration: □□ 01 Class A 02 Class B Certificate No.: Industrial waste gas: □□ 01 Class A 02 Class B Certificate No.:
	 Industrial waste gas: □□ 01 Class A 02 Class B Certificate No.: Industrial solid waste: □□ 01 Class A 02 Class B Certificate No.:
	 6. Household garbage: □□ 01 Class A 02 Class B Certificate No.:
	7. Automatic continuous monitoring: 01 Water Certificate No.: 02 Gas Certificate No.:
	Qualification for engineering supervision enterprise (municipal utility engineering) (multiple choice available)
	Water Supply and drainage: □□ 01 Class A 02Class B 03 Class C Certificate No.:
8	2. Garbage disposal: □□ 01 Class A 02 Class B 03 Class C Certificate No.:
	3. Others (Details) □□ 01 Class A 02 Class B 03 Class C Certificate No.:
	Hazardous waste operation license: Certificate No.:
9	Comprehensive collection, storage and disposal of hazardous waste operation license;
	Collection of hazardous waste operation license
cin	pal of division: Principal for statistics: Prepared by:

Note:

Date:

^{1.} All legal entities engaged in production and business of the environmental-protection and related products and environmental service listed in the investigation scope of this questionnaire must fill in this form.

^{2.} Except for items indicated with (multiple choice available), all items in the form just have a single option.

ANNEX 7. QUESTIONNAIRE OF CHINA'S ENVIRONMENTAL INDUSTRY SURVEY: EMPLOYMENT OF THE ENVIRONMENTAL PROTECTION INDUSTRY (HCHJ 1-2)

Form No.: HCHJ 1-2

Prepared by: Ministry of Environmental Protection National

Development and Reform Commission Approval authority: National Bureau of Statistics

Approval No.: GTZH [2012] No. 37 Date of expiry: March 31st, 2013

Full name (Stamp): 2011 Unit: person

Organization Code:

Name of indicator	Code	Actual value in this year
A	В	1
Total employees of the environmental protection and related industry	01	
Among them: Female	02	
R&D staff	03	
Management	04	
Technical staff	05	
Workers	06	
Classify according to the professional and technical titles: Staff with senior technical title	07	
Staff with middle technical title	08	
Staff with primary technical title	09	
Classify according to the technical grade: Senior technician	10	
Technician	11	
Advanced worker	12	
Intermediate worker	13	
2. Employees engaged in production and operation of the environmental protection and related product	14	
Among them: Employees engaged in production and operation of the environmental protection product	15	
Employees engaged in production and operation of the environment-friendly product	16	
Employees engaged in production and operation of the resource recycling product	17	
Employees engaged in environmental services	18	
Among them: Employees with certificates engaged in operation of the pollution control facilities	19	
Environmental impact assessment engineers	20	
Registered consulting engineers (ecological construction and environmental engineering)	21	
Registered supervision engineer (municipal utilities engineering)	22	
Registered environment engineer	23	
Registered utility equipment engineer (water supply and drainage)	24	
Registered construction engineering (municipal utilities)	25	

Principal of division:

Principal for statistics:

Prepared by:

Date:

Note:

^{1.} All legal entities engaged in production and business of the environmental-protection and related products and environmental service listed in the investigation scope of this questionnaire must fill in this form.

^{2.} The statistics on Items 07, 08 and 09 shall be conducted according to the highest professional and technical titles of staff owned (once statistics on each person).

^{3.} The statistics on Items 10, 11, 12 and 13 shall be conducted according to the highest technical grade of staff owned (once statistics on each person).

ANNEX 8. QUESTIONNAIRE OF CHINA'S ENVIRONMENTAL INDUSTRY SURVEY: OPERATION OF THE ENVIRONMENTAL PROTECTION INDUSTRY (HCHJ 1-3)

Form No.: HCHJ 1-3

Organization Code:

Prepared by: Ministry of Environmental Protection National Development and Reform Commission Approval authority: National Bureau of Statistics

Approval No.: GTZH [2012] No. 37 Date of expiry: March 31st, 2013

Full name (Stamp):

2011

Full name (Stamp): 2011 Date of expiry.	Water 51st, 2015		
Name of indicator	Unit	Code	Actual value of this year
A	В	C	1
1. Assets and liabilities	_	_	
Original value of fixed assets	RMB 10 000	01	
Newly-increased investment in fixed assets in this year	RMB 10 000	02	
Accumulated depreciation	RMB 10 000	03	
Including: depreciation of this year	RMB 10 000	04	
Total assets	RMB 10 000	05	
Total liabilities	RMB 10 000	06	
2. Business cost and taxes	_	_	
Operating cost	RMB 10 000	07	
Business tax and additional	RMB 10 000	08	
Sales expense	RMB 10 000	09	
Overhead expense	RMB 10 000	10	
Including: tax	RMB 10 000	11	
Expense for business trip	RMB 10 000	12	
Financial cost	RMB 10 000	13	
Including: interest expense	RMB 10 000	14	
Gains on the fair value change	RMB 10 000	15	
Return on investment	RMB 10 000	16	
Employee compensation payable	RMB 10 000	17	
Income tax payable	RMB 10 000	18	
VAT payable	RMB 10 000	19	
3. Total product-sales value of this year	RMB 10 000	20	
Among them: sales value of environmental protection product	RMB 10 000	21	
Sales value of environment-friendly product	RMB 10 000	22	
Sales value of resource recycling product	RMB 10 000	23	
Total revenue of this year	RMB 10 000	24	
Among them: sales revenue of environmental protection products	RMB 10 000	25	
Sales revenue of environment-friendly product	RMB 10 000	26	
Sales revenue of resource-recycling product	RMB 10 000	27	
Business income of r environment service	RMB 10 000	28	
5. Business profit of this year	RMB 10 000	29	
Among them: sales profit of environmental protection product	RMB 10 000	30	
Sales profit of environment-friendly product	RMB 10 000	31	
Sales profit of resource-recycling product	RMB 10 000	32	
Business profit of environment services	RMB 10 000	33	
6. Total foreign exchange earning of this year	USD 10 000	34	
Export contract amount of environmental protection product	USD 10 000	35	
Export contract amount of environment-friendly product	USD 10 000	36	
Export contract amount of resource-recycling product	USD 10 000	37	
Foreign contract amount of resource-recycling product	USD 10 000	38	

Principal of division: Principal for statistics: Prepared by: Date:

Note:

^{1.} All legal entities of which selected "1. Enterprises accounting system" in the Column 12of "Category of applicable accounting system" (including the public institutions with the enterprise management and enterprise accounting system practiced) must fill in this form.

^{2.} For by-business environmental protection entities, some data on the environmental protection and related industry shall be filled for each item.

^{3.} The audit relationship: 21+22+23=20; 25+26+27+28=24; 30+31+32+33=29; 35+36+37+38=34

ANNEX 9. QUESTIONNAIRE OF CHINA'S ENVIRONMENTAL INDUSTRY SURVEY: PRODUCTION AND OPERATION OF THE ENVIRONMENTAL-PROTECTION PRODUCTS (HCHJ 2-1)

Organization Code: Form No.: HCHJ 2-1

Prepared by: Ministry of Environmental Protection

Full name (Stamp): National Development and Reform Commission

Product name: Approval authority: National Bureau of Statistics

Registered product code: Approval No.: GTZH [2012] No. 37
Applicable standard: Date of expiry: March 31st, 2013

Exported country code: 2011

Name of indicator	Unit	Code	Actual value of this year
A	В	C	1
Product output		01	
Number of product of this model (series)	Each	02	
Number of the environmental protection product with national certification	Each	03	
Industrial sales value	RMB 10000	04	
Product sales revenue	RMB 10000	05	
Product sales profit	RMB 10000	06	
Export contract amount	USD 10000	07	

Principal of division: Principal for statistics: Prepared by: Date:

Note

- 1. This form shall be filled in by the entities engaged in production and business of the environmental protection products (including equipment to produce the resource recycling product). Each form only reflects production and operation of certain (series of) environmental protection product. In event that the entity has produced many (series of) environmental protection products in this year, the corresponding quantity of forms shall be filled in.
- 2. "Product name" is the name of (series of) environmental protection product given by certain entity.
- 3. "Registered product code" shall be filled in according to a code of 10 digitals as in Appendix "(3) the directory and code for filling in the environmental protection product".
- 4. The column of "Applicable standard" shall be filled in with "National Standard" and "Industrial Standard", "Enterprise Standard", "Others" or "Non Standard" according to the actual situation. In event that a variety of standards have been adopted, only the highest standard shall be filled in.
- 5. The column of "Exported country (or area) code" shall be filled in according to Appendix "(2) Country (Area) code".
- 6. For the column of "Actual value of this year", value of each index shall be filled in corresponding to the (series) environmental protection product.
- 7. The unit of "01 Product output" shall be filled in on the basis of the product characteristics, such as: each, set, and ton.
- 8. For the column of "02 Number of product of this model (series)", total amount of the (series of) environmental protection products in different specifications shall be filled in.
- 9. The logic relationship: $0.3 \le 0.2$; The sum of all Item 04 of this kind of forms \le Item 21 in the Form HCHJ 1-3; the sum of all Item 05 of this kind of forms \le Item 25 in the Form HCHJ 1-3; the sum of all Item 07 of this kind of forms \le Item 35 in the Form HCHJ 1-3.

ANNEX 10. QUESTIONNAIRE OF CHINA'S ENVIRONMENTAL INDUSTRY SURVEY: PRODUCTION AND OPERATION OF THE ENVIRONMENT-FRIENDLY PRODUCTS (HCHJ 2-2)

Organization Code: Form No.: HCHJ 2- 2

Prepared by: Ministry of Environmental Protection
Full name (Stamp):
Product name:
Registered product code:

Prepared by: Ministry of Environmental Protection
National Development and Reform Commission
Approval authority: National Bureau of Statistics
Approval No.: GTZH [2012] No. 37

Applicable standard: Date of expiry: March 31st, 2013
Exported country code: 2011

Name of indicator	Unit	Code	Actual value of this year
A	В	С	1
Number of product of this model (series)	Each	01	
Received national certification or not	_	_	
Among them: environment label product	Each	02	
Energy-saving product	Each	03	
Water saving product	Each	04	
Organic product	Each	05	
Product output		06	
Government procurement amount	RMB 10000	07	
Industrial sales value	RMB 10000	08	
Product sales revenue	RMB 10000	09	
Product sales profit	RMB 10000	10	
Export contract amount	USD 10000	11	

Principal of division:	Principal for statistics:	Prepared by:	Date:
Principal of division:	Principal for stati	stics:	Prepared by:

Note:

- 1. This form shall be filled in by the entities engaged in production and business of the environment-friendly products with environment mark certification, energy-saving & water-saving certification or organic product certification. All products to be filled in are limited the those with environment mark certification, energy-saving & water-saving certification or organic product certification from the certain certification body approved or authorized by the state. Each form only reflects production and operation of certain (series of) environment-friendly product. In event that the entity has produced many (series of) environment-friendly products in this year, the corresponding quantity of forms shall be filled in.
- 2. "Product name" is the name of (series of) environment-friendly product given by certain entity.
- 3. "Registered product code" shall be filled in according to a code of 6 digitals as in Appendix "(4) the directory and code for filling in the environment-friendly product".
- 4. The column of "Applicable standard" shall be filled in with "National Standard" and "Industrial Standard", "Enterprise Standard", "Others" or "Non Standard" according to the actual situation. In event that a variety of standards have been adopted, only the highest standard shall be filled in.
- 5. The column of "Exported country (or area) code" shall be filled in according to Appendix "(2) Country (Area) code".
- 6. For the column of "Actual value of this year", value of each index shall be filled in corresponding to the (series of) environment-friendly product.
- 7. For the column of "01 Number of product of this model (series)", total amount of the (series of) environment-friendly products in different specifications shall be filled in.
- 8. The unit of "06 Product output" shall be filled in on the basis of the product characteristics, such as: each, set, and ton.
- 9. The logic relationship: 02+03+04+05>0; The sum of all Item 08 of this kind of forms \leq Item 22 in the Form HCHJ 1-3; the sum of all Item 09 of this kind of forms \leq Item 26 in the Form HCHJ 1-3; the sum of all Item 11 of this kind of forms \leq Item 36 in the Form HCHJ 1-3.

ANNEX 11. QUESTIONNAIRE OF CHINA'S ENVIRONMENTAL INDUSTRY SURVEY: PRODUCTION AND OPERATION OF THE RESOURCE-RECYCLING PRODUCTS (HCHJ 2-3)

2011

Organization Code:

Full name (Stamp):

Name of resource-recycling product:

Registration code of resource -recycling

product:

Exported country code:

Name of waste resource to be disposed

Form No.: HCHJ 2-2

Prepared by: Ministry of Environmental Protection National Development and Reform Commission Approval authority: National Bureau of Statistics

Approval No.: GTZH [2012] No. 37 Date of expiry: March 31st, 2013

Name of indicator	Unit	Code	Actual value of this year
A	В	С	1
Investment in production equipment	RMB 10000	01	
Output of resources-recycling product		02	
Industrial sales value	RMB 10000	03	
Product sales revenue	RMB 10000	04	
Product sales profit	RMB 10000	05	
Export contract amount	USD 10000	06	
Amount of waste resources utilized		07	
Proportion of waste resources mixed	%	08	

Principal of division: Principal for statistics: Prepared by: Date:

Note:

- 1. This form shall be filled in by the entities engaged in production and business of the resources-recycling product. The equipment to produce resource-recycling product shall be included in the statistics on the environmental protection product (HCHJ 2-1), instead of this form. Each form only reflects production and operation of certain (series of) resources-recycling product. In event that the entity has produced many (series of) resources-recycling products in this year, the corresponding quantity of forms shall be filled in.
- 2. "Name of resource-recycling product" is the name of (series of) resources-recycling product given by certain entity.
- 3. "Registration code of resource-recycling product" shall be filled in according to a code of 6 digitals as in Appendix "(5) the directory and code for filling in the resources-recycling product".
- 4. The column of "Exported country (or area) code" shall be filled in according to Appendix "(2) Country (Area) code".
- 5. "Name of waste resource to be disposed" is the name of main waste resource as raw materials to produce this (series of) resource-recycling product.
- 6. For the column of "Actual value of this year", value of each index shall be filled in corresponding to the (series of) resource-recycling
- 7. For the column of "01 Investment in production equipment", the entity shall fill in with actual total expenditure on procurement, repair and maintenance special equipment to produce this (series of) resource-recycling product in this year.
- 8. The unit of "02 Output of resources-recycling product" and "07 Amount of waste resources utilized" shall be filled in on the basis of the product characteristics; for example, solid and liquid shall be measured in "10000 tons"; while gas shall be measured in "Nm3".

 9. For the column of "08 Proportion of waste resources mixed Investment in production equipment", the entity shall fill in with the percentage of main wastes weight to total weight of production raw materials.
- 10. The logic relationship: the sum of all Item 03 of this kind of forms ≤ Item 23 in the Form HCHJ 1-3; the sum of all Item 04 of this kind of forms ≤ Item 27 in the Form HCHJ 1-3; the sum of all Item 06 of this kind of forms ≤ Item 37 in the Form HCHJ 1-3.

ANNEX 12. QUESTIONNAIRE OF CHINA'S ENVIRONMENTAL INDUSTRY SURVEY: PRODUCTION AND OPERATION OF THE ENVIRONMENTAL SERVICE INDUSTRY (HCHJ 4-1)

Form No.: HCHJ 2- 2

Prepared by: Ministry of Environmental Protection National Development and

Reform Commission

Approval authority: National Bureau of Statistics

Approval No.: GTZH [2012] No. 37
Date of expiry: March 31st 2013

Full name (Stamp):

Organization Code:

Item Code Code Order Code Order Contract Gross Total Foreign Service Contract Contract		2011		Date of expi	ry: March 31:	st, 2013	
Pollution control service and operation of environmental protection facility Among them: operation of environmental protection facility Pollution control service and operation of environmental protection facility Pollution control service Pollution facility Pollution Pollution control service Pollution control construction Pollution control cont			of item	Contract amount (RMB 10000)	Gross revenue (RMB 10000)	Total profit (RMB 10000)	service contract amount (USD 10000)
environmental protection facility Among them: operation of environmental protection facility Environmental engineering construction O3 Research, development and promotion of the environmental technology R &D Among them: environmental technology R &D Environmental technology popularization O6 Environmental policy planning and consulting Environmental audit and audit certification O8 Among them: audit certification and consultation of the environmental management system Audit and consultation of the cleaner production Certification and consultation of the environment mark Certification and consultation of the environment and consultation of the environmental product Certification and consultation of the environmental product of the environment of the		В	1	2	3	4	5
environmental protection facility Environmental engineering construction Research, development and promotion of the environmental technology Among them: environmental technology R &D Environmental technology P &D Environmental technology P &D Environmental technology P &D Environmental technology P &D Environmental policy planning and consulting Environmental policy planning and consulting O7 Environmental audit and audit certification O8 Among them: audit certification and consultation of the environmental management system Audit and consultation of the environment mark Certification and consultation of the environment mark Certification and consultation of the environmental protection product Certification and consultation of the environmental product Certification and consultation of the water-saving product Certification and consultation of the organic product Certification and consultation of the water-saving product Certification and consultation of the organic product certification and training 23 Environmental insendent and environmental protection products Certification and training 23 Environmental information service 24 Environmental information service 24 Environmental information service 25 Environmental information and ecological protection protection pro	=	01					
facility Environmental engineering construction Research, development and promotion of the environmental technology Among them: environmental technology R&D Environmental policy planning and consulting Environmental policy planning and consulting Environmental audit and audit certification Among them: audit certification and consultation of the environmental management system Audit and consultation of the cleaner production Certification and consultation of the environment mark Certification and consultation of the environment and consultation of the environmental protection product Certification and consultation of the environmental product Certification and consultation of the water-saving product Certification and consultation of the water-saving product Certification and consultation of the organic product Certification and consultation of the organic product Certification and consultation of the organic product Certification and consultation of the environmental inspect assessment Environmental engineering consulting In the environmental impact assessment Environmental irsk and damage assessment Environmental technology assessment Devironmental supervision Devironmental instead and training Devironmental instead and training Devironmental information service Devironmental information and ecological protection engineering Devironmental information and ecological protection engineering Devironmental informa	•						
Research, development and promotion of the environmental technology R &D 05 Environmental technology R &D 05 Environmental rechnology popularization 06 Environmental policy planning and consulting 07 Environmental policy planning and consulting 07 Environmental audit and audit certification 08 Among them: audit certification and consultation of the environmental management system 09 Audit and consultation of the cleaner production 10 Certification and consultation of the environment 11 mark 11 Certification and consultation of the environment 12 protection product 12 Certification and consultation of the environment 13 product 14 Certification and consultation of the water-saving product 15 Certification and consultation of the water-saving product 15 Certification and consultation of the water-saving product 15 Certification and consultation of the organic 15 product 15 Certification and consultation of the organic 15 Provinonmental assessment and evaluation 17 Among them: the environmental impact assessment 18 Environmental technology assessment 19 Environmental risk and damage assessment 20 Environmental risk and damage assessment 20 Environmental spervision 22 Environmental supervision 22 Environmental unformation service 24 Environmental information service 24 Environmental information service 24 Environmental information service 24 Environmental minoritoring 25 Environmental information service 28 Environmental information service 28 Environmental information service 28 Environmental information service 29 Ernvironmental information service 30 Ecological restoration and ecological protection 30 Services 33 Protection engineering 34 Ecological protection engineering 32 Ecological protection engineering 34	facility	-					
environmental technology Among them: environmental technology R &D Environmental technology popularization 06 Environmental technology popularization 06 Environmental undit and audit certification Among them: audit certification and consultation of the environmental management system Audit and consultation of the cleaner production 10 Certification and consultation of the environment land consultation of the environmental management system Audit and consultation of the environment land consultation of the environmental rectification and consultation of the environmental rectification and consultation of the energy-saving land product Certification and consultation of the energy-saving land product Certification and consultation of the vater-saving land product Certification and consultation of the organic product Certification and consultation of the organic land land land land land land land land	-						
Environmental technology popularization 06 Environmental policy planning and consulting 07 Environmental audit and audit certification 08 Among them: audit certification and consultation of the environmental management system Audit and consultation of the cleaner production 10 Certification and consultation of the environment mark Certification and consultation of the environmental product 0 Certification and consultation of the energy-saving product 0 Certification and consultation of the energy-saving 13 product 0 Certification and consultation of the water-saving 14 product 0 Certification and consultation of the water-saving 14 product 0 Certification and consultation of the organic 15 Environmental engineering consulting 16 Environmental engineering consulting 16 Environmental assessment and evaluation 17 Among them: the environmental impact assessment 18 Environmental risk and damage assessment 20 Evaluation of the product life cycle 21 Environmental supervision 22 Environmental supervision 22 Environmental education and training 23 Environmental monitoring 25 Environmental monitoring 25 Environmental monitoring 25 Environmental monitoring 27 products Environmental monitoring 27 Environmental monitoring 28 Environmental monitoring 29 Services 28 Including: environmental investment and financing services 28 Loological restoration and ecological protection services 33 Among them: ecological restoration and ecological protection engineering 34 Nature reserve monitoring and management 32 Ecological protection consulting services 33 Protection and breeding services for the endangered 34 Ecological protection consulting services 33 Protection and breeding services for the endangered 34 Ecological protection and breeding services or the endangered 34 Ecological protection and breeding services for the endangered 34 Ecological protection and breeding services for the endangered 34	environmental technology	-					
Environmental policy planning and consulting Environmental audit and audit certification Among them: audit certification and consultation of the environmental management system Audit and consultation of the cleaner production Certification and consultation of the environment and protection product Certification and consultation of the energy-saving product Certification and consultation of the water-saving product Certification and consultation of the water-saving product Certification and consultation of the organic product in the orga							
Environmental audit and audit certification Among them: audit certification and consultation of the environmental management system Audit and consultation of the cleaner production Certification and consultation of the environment mark Certification and consultation of the environmental protection product Certification and consultation of the energy-saving product Certification and consultation of the water-saving product Certification and consultation of the water-saving product Certification and consultation of the organic product organic product in the organic product organic product organic product in the organic product organic product in the organic product organic product in the organic produ							
Among them: audit certification and consultation of the environmental management system Audit and consultation of the cleaner production Certification and consultation of the environment 11 mark Certification and consultation of the environment 12 protection product Certification and consultation of the environmental 12 protection product Certification and consultation of the energy-saving product Certification and consultation of the water-saving product Certification and consultation of the organic product Certification and consultation of the organic product Environmental engineering consulting 16 product 17 product 17 product 18 product 19							
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Principal of division:

Principal for statistics:

Prepared by:

Date:

Note

1-4 or Item 23 in the Form HCHJ 1-5.

 $^{1. \} This \ form \ shall \ be \ filled \ in \ by \ the \ entities \ engaged \ in \ the \ environmental \ services.$

^{2.} The logic relationship: except for the 4th column, $0 \le 01$, $05 + 06 \le 04$, $09 + 10 + 11 + 12 + 13 + 14 + 15 \le 08$, $18 + 19 + 20 + 21 \le 17$, $27 \le 26$, $29 \le 28$, $31 + 32 + 33 + 34 \le 30$; the sum of each level of item of Line 3 under Column A = Item 28 in the Form HCHJ 1-3, or Item 07 in the Form HCHJ 1-4 or Item 08 in the Form HCHJ 1-5; the sum of each level of item of Line 4 under Column A = Item 38 in the Form HCHJ 1-3, or Item 31 in the Form HCHJ 1-6 the Sum of each level of item of Line 5 under Column A = Item 38 in the Form HCHJ 1-3, or Item 31 in the Form HCHJ 1-5; the sum of each level of item of Line 5 under Column A = Item 38 in the Form HCHJ 1-3, or Item 31 in the Form HCHJ 1-5 the Sum of each level of item of Line 5 under Column A = Item 38 in the Form HCHJ 1-3, or Item 31 in the Form HCHJ 1-5 the Sum of each level of item of Line 5 under Column A = Item 38 in the Form HCHJ 1-3, or Item 31 in the Form HCHJ 1-5 the Sum of each level of item of Line 5 under Column A = Item 38 in the Form HCHJ 1-3, or Item 31 in the Form HCHJ 1-5 the Sum of each level of item of Line 5 under Column A = Item 38 in the Form HCHJ 1-3, or Item 31 in the Form HCHJ 1-5 the Sum of each level of item of Line 5 under Column A = Item 38 in the Form HCHJ 1-3, or Item 31 in the Form HCHJ 1-3 the Sum of each level of item of Line 5 under Column A = Item 38 in the Form HCHJ 1-3, or Item 31 in the Form HCHJ 1-3 the Sum of each level of item of Line 5 under Column A = Item 38 in the Form HCHJ 1-3 the Sum of each level of item of Line 5 under Column A = Item 38 in the Form HCHJ 1-3 the Sum of each level of item of Line 5 under Column A = Item 38 in the Form HCHJ 1-3 the Sum of each level of item of Line 5 under Column A = Item 38 in the Form HCHJ 1-3 the Sum of each level of item of Line 5 under Column A = Item 38 in the Form HCHJ 1-3 the Sum of each level of item of Line 5 under Column A = Item 38 in the Form HCHJ 1-3 the Sum of each level of item of Line 5 under Column A = Item 38 in the Form HCHJ 1-3 the Sum of each level of



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