



ICTSD Programme on Trade and Environment

HS Codes and the Renewable Energy Sector¹

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1. Abbreviations and acronyms

HS	Harmonized System
HTSUS	Harmonized Tariff Schedule of the United States
UN	United Nations
WCO	World Customs Organization ²
WTO	World Trade Organization

2. Harmonized System

2.1 Introduction

With a view to facilitating international trade, a commodity classification system was developed by the World Customs Organization (WCO). This system is laid down in the International Convention on the Harmonized Commodity Description and Coding System (done at Brussels, on 14 June 1983), also known as the “Harmonized System” or “HS”. As of 1 February 2009, 136 countries and economic or Customs unions are contracting party to this convention and another 70 countries and economic or Customs unions apply the system on a voluntary basis for Customs tariff and statistical purposes, thus covering over 98 percent of global trade.

² In 1994, the Customs Co-operation Council adopted the working name “World Customs Organization” to reflect its transition to a global intergovernmental organisation. The Convention establishing the Customs Co-operation Council came into force in 1952. The organisation has 174 members (as per 1 February 2009).

Since the Harmonized System is updated on a more or less regular basis – sets of amendments came into force on 1 January 1992, 1996, 2002 and 2007, respectively – users may refer to different editions. Any reference in this paper to HS headings, subheadings and Section, Chapter or Subheading Notes, is based on the fourth edition (2007) of the Harmonized System.

2.2 Application

The Harmonized System is a multi-purpose tool, both in concept and design. Although developed as a Customs tariff and statistical tool, it is also used by governments, international organisations and the private sector for:

- internal taxes
- trade policies
- monitoring of controlled goods
- rules of origin
- freight tariffs
- transport statistics
- price monitoring
- quota controls
- compilation of national accounts
- economic research and analysis

The United Nations (UN) are using HS subheadings as building blocks for its economic classifications. Consequently, the data used for statistical systems such as the Standard International Trade Classification (SITC), the International Standard Industrial Classification of all economic activities (ISIC) and the Central Products Classification (CPC), is based on HS classification.

Also, the World Trade Organization (WTO) and its members use the Harmonized System as a common language for trade negotiations, and tariff concessions schedules of WTO members are based on the Harmonized System. In addition, the HS is also providing a basis for the Harmonization of non-preferential Rules of Origin, currently under development by the WTO.

Other international organisations use the HS as an instrument for monitoring international trade in certain controlled goods, e.g., chemical weapons material, hazardous waste, ozone-layer depleting substances and certain hazardous chemicals. The use of a single, global classification system in these areas has proved to be of great benefit to the implementation of and compliance with the international instruments involved.

Classification in the Harmonized System is also extensively used by individual countries in the application of preferential tariff treatment, in particular for the identification of the goods and for the determination of the origin of the goods.

2.3 Classification principles

The classification of goods in the Harmonized System follows its own rules. The appropriate HS heading or subheading for each commodity has to be determined on the basis of a full description of the goods, in association with the texts of the headings (and subheadings), any relevant Section, Chapter or Subheading Notes, and the General Interpretative Rules. The

General Interpretative Rules lay down guiding principles for classification purposes, with a view to arriving at a uniform interpretation and application of the system. For legal purposes, the wording of the headings and any relative Section, Chapter or Subheading Notes, are decisive. Titles of Section or Chapters are for reference only and do not have legal status.

The WCO has published Explanatory Notes to the Harmonized System, which clarify the scope of the headings and subheadings. However, they do not have legal status and cannot change the scope of a heading or subheading.

Classification in the Harmonized System is made in accordance with the General Interpretative Rules (GIRs or Rules). Rule 1 provides that the classification of goods shall be determined according to the terms of the headings and any relative Section or Chapter Notes. In the event that the goods cannot be classified solely on the basis of Rule 1, and if the headings and Notes do not otherwise require, Rules 2 through 6 may then be applied in order.

2.4 Structure

The Harmonized System provides a logical structure within which headings are grouped in Chapters, the latter being themselves arranged in Sections.

Headings accommodate particular groupings of commodities, and are identified by a code consisting of four digits. The first two digits of this code indicate the Chapter wherein the heading appears, while the latter two indicate the position within that Chapter. The two groups of digits are separated by a period. For example, HS heading 84.19 belongs to Chapter 84 and is the 19th heading in that Chapter.

Most of the headings have been further subdivided into two or more one-dash subheadings which, where appropriate, have been further subdivided into two or more two-dash subheadings. Such subdivisions are identified by a unique six digits code, the so-called “HS code”. The first four digits of this HS code correspond to the heading number (but without the period between the first two digits and the last two), whereas the fifth and sixth digits identify the one-dash and two-dash subheadings, respectively. To identify the subheadings, the numbers one to nine are used. If there are no such subheadings, a zero is used. Also, if a heading has not been further subdivided, the last two digits are “00”. The last two digits are separated from the first four by a period.

2.5 Classification consequences

As indicated above, the Harmonized System is extensively used as the basis for Customs tariff nomenclatures, which contain the rates of import duties. The applicable rate of import duty, therefore, results from the classification of a commodity in the national Customs tariff nomenclature (and the Harmonized System).

Whereas the Harmonized System is (in economic terms) a neutral classification tool (no relation with rates of import duty), a Customs tariff nomenclature is an economic or even a political instrument, by the inclusion of rates of import duty. Since the result of the classification process may interfere with domestic interests, the classification process, at the national level, may be influenced by the parties involved. The following examples of the rates of import duty of related headings within Customs tariff nomenclatures of a number of countries or territories may clarify this.

Pumps are used in air conditioning machines. The rate of import duty in the European Community (EC) for air conditioning machines (other than self-contained window or wall type) and their related parts (of heading 84.15) is 2,7 %, whereas the rate of import duty for pumps for liquids (heading 84.13) is 1.7 %.

Similarly, a diesel engine can be designed to be used with an electric generator to form a generating set. The EC rate of import duty for a diesel engine powered generating set (heading 85.02) is 2.7 %. The rate of import duty for the diesel engine (heading 84.08) is 4.2 % and the rate of import duty for generators (heading 85.01), as well as for parts of generating sets (heading 85.03), is 2.7 %.

Rubber seals can be used as parts of pumps. The rate of import duty in India for parts of pumps for liquids (heading 84.13) is 7.5 %, whereas rubber seals (code 4016.93.30) are levied with 10 % rate of import duty.

Wind powered generating sets consist of a number of components, e.g., tower, propeller blades, gear box, bearings and an electric generator. In the United States, wind powered generator sets (HTSUS 8502.31) attract 2.5 % rate of import duty. Gear boxes used for such sets (HTSUS 8483.40.70) are levied with 3.9 % rate of import duty, whereas ball bearings without integral shafts (HTSUS 8482.10.50) attract 9 %.

Finally, in South Korea the rate of import duty for ball bearings of which the inside diameter does not exceed 100 mm (8482.10.20), which can be used in generator sets of heading 85.02, is 13 %. For parts of generating sets (8503.00.20) it is 8 %.

With a view to arriving at a uniform classification in Section XVI (Chapters 84 and 85) and Chapter 90, specific provisions for the classification of parts have been laid down in Note 2 to that Section. This Note (Note 2 to Chapter 90 has the same structure) reads as follows :

“Subject to Note 1 to this Section, Note 1 to Chapter 84 and Note 1 to Chapter 85, parts of machines (not being parts of the articles of heading 84.84, 85.44, 85.45, 85.46 or 85.47) are to be classified according to the following rules :

- (a) Parts which are goods included in any of the headings of Chapter 84 or 85 (other than headings 84.09, 84.31, 84.48, 84.66, 84.73, 84.87, 85.03, 85.22, 85.29, 85.38 and 85.48) are in all cases to be classified in their respective headings;
- (b) Other parts, if suitable for use solely or principally with a particular kind of machine, or with a number of machines of the same heading (including a machine of heading 84.79 or 85.43) are to be classified with the machines of that kind or in heading 84.09, 84.31, 84.48, 84.66, 84.73, 85.03, 85.22, 85.29 or 85.38 as appropriate. However, parts which are equally suitable for use principally with the goods of headings 85.17 and 85.25 to 85.28 are to be classified in heading 85.17.
- (c) All other parts are to be classified in heading 84.09, 84.31, 84.48, 84.66, 84.73, 85.03, 85.22, 85.29 or 85.38 as appropriate or, failing that, in heading 84.87 or 85.48.”

Following these provisions, a pump for use in an air conditioning machine (whatever the specificity of the pump may be) is not to be regarded as a part of that air conditioning

machine (of heading 84.15), but should be classified in its own heading, i.e., heading 84.13. Also, articles of rubber are excluded from classification within Section XVI by virtue of Note 1 to that Section. Therefore, a rubber seal is classified in heading 40.16 and not in heading 84.13 as a part of a pump. Gear boxes and bearings belong to headings 84.83 and 84.82, respectively.

As indicated in paragraph 3.1, the items listed in the Appendices B and C refer mainly to components, and the foregoing provision applies to such parts (or components or sub-assemblies) which are presented separately (i.e., without the parent article). When such components are presented separately, they follow their own classification. However, when presented together with other components to form a finished commodity, whether or not assembled, the whole is to be classified according to the nature of the finished commodity. For example, a structure of steel for a wind powered generator set (i.e., the tower) is classified, when presented separately, in heading 73.08. When presented with the generator set, it follows the classification of that set, i.e., heading 85.02.

In this context it is to be noted that the Combined Nomenclature of the European Community has additional provisions in Section XVI, which apply, under certain conditions, to the classification of so called split consignments of machines (i.e., application of General Interpretative Rule 2 (a)). Under these provisions, components brought into the Customs territory at different moments, and constituting together a particular machine classifiable in Chapters 84 or 85, are classified for import declaration purposes at the moment that they have been assembled. Goods are classified as they are presented to Customs. This additional Note provides that the moment of “presenting” the commodity to Customs with a view to assigning the appropriate Customs classification, is the moment the individual components have been assembled. In this way, importers need not to provide a full import declaration for each of the individual components when being brought into the territory. For example, the components of a wind powered generator set, i.e., (i) the steel tower, (ii) the propeller blades, (iii) the gear box and (iv) the generator, each of them being brought into the territory at different moments, can be classified as an electric generating set in heading 85.02 at the moment the whole has been assembled.

2.6 Reduction of import duty rates

For WTO Members, the rate of import duty normally applied is the so called most-favoured-nation rate, i.e., granting a lower Customs import duty rate to one of the members, which is then also to be applied to imports of the same commodity from other members.

However, countries or Customs or economic unions may decide, for various reasons, not to apply the normal rate of import duty, but to suspend it on an autonomous basis during a particular period (e.g., six or twelve months), so called autonomous tariff suspensions. The main purpose of such tariff suspensions is to enable domestic enterprises to use raw materials, semi-finished goods or components without being required to pay the normal duties laid down in the Customs tariff, thus stimulating economic activities, improving competitive capacity, creating employment, modernising structures, etc. The disadvantage of such suspensions is that it is to be negotiated by the potential importer periodically, the outcome of which not being predictable.

On the other hand, a group of countries may decide to come to a more permanent situation in which rates of import duties for certain commodities are reduced by international agreements.

This can be achieved within the WTO on a sectorial basis, covering rates of import duties applicable to a specific group of commodities, for example information-related equipment. One of the preconditions is, however, that the scope of the group should be defined in a very precise manner. If the agreement fails to define the scope of the specific group of commodities, there will be discussions in the implementation and application phase.

When the scope of the commodities to be covered by the agreement has been clearly defined, the classification of the commodities in the Harmonized System (and, consequently, in the Customs tariff of the countries involved) should be established. It is on this basis that countries can identify what the level of concessions will be when reducing or eliminating tariff rates. The agreed level of rates of import duties will be laid down in an agreement. The advantage of this type of agreement would be that it is predictable and transparent : all members apply the same provisions.

Another approach to apply lower rates of import duty for certain groups of commodities is to create “projects”. In this approach, individual countries or Customs or economic unions decide what project (and consequently, what commodities) will fall within the scope of reduced or eliminated rates of import duty. The advantage is that the effect on the revenue of import duty can be calculated before hand. The disadvantage is that this system is not predictable and transparent : a project may be considered by one member as qualifying, whereas another member could hold an opposite view.

3. Appendices B and C

3.1 Scope

The descriptions of the goods in Appendices B and C refer to the main components (i.e., parts, subassemblies, etc.) of climate mitigation goods, rather than to the complete power plants. The HS codes assigned to each of these components would be applicable when the goods are presented (and to be classified) separately. If components which constitute together, for example, a complete power plant, are presented together, the resulting HS code(s) may be different, due to the classification rules (see also paragraph 2.5 above).

3.2 Assignment of HS codes

HS codes have been assigned to each of the main components listed. In some cases, two or more HS codes have been assigned to one description. This is due to the fact that the description of the component at issue is not sufficiently specific in terms of the HS. For example, the reference to “infield and export cables” involves a number of HS codes, depending whether it concerns cables (i) with or without connectors and (ii) for a voltage exceeding 1,000 V or not exceeding 1,000 V. In these cases, all possible HS codes have been mentioned in the Appendices.

3.3 Results

The components listed in Appendices B and C are classified under 85 different HS codes, divided over 42 headings (see columns (3) and (2), respectively, of the table below). The table also shows the number of “hits” for each of the HS codes (column (4)).

With respect to the number of “hits” the following should, however, be taken into consideration.

First, in many cases several HS codes have been assigned to one component. As indicated above, this is due to the fact that the description provided is lacking information which is needed to allocate a single HS code.

For example, for heading 74.11 (“copper tubes and pipes”), there are 18 hits, six for each of the HS codes 7411.21, 7411.22 and 7411.29. The aggregate of these HS codes refer to all tubes and pipes of copper alloys. However, HS code 7411.21 covers those made of brass, whereas HS code 7411.22 covers those made of copper-nickel or copper-nickel-zinc base alloys. Tubes and pipes of all other copper alloys are covered by the residual HS code 7411.29. In the Appendices B and C, all three HS codes have been mentioned, since the nature of the constituent material is unknown.

Second, it appears that the majority of the components fall within the HS chapters covering articles of base metal (Chapters 72 to 83), mechanical appliances (Chapter 84), electrical apparatus (Chapter 85) and measuring and verifying apparatus (Chapter 90).

Finally, a particular HS code may cover a range of products, including the product referred to in one of the Appendices. This results in a so-called “ex-out”, which is identified by using the prefix “ex” in front of the HS code. For example, HS code 8504.40 covers static converters. In the descriptions given in Appendices B and C, reference is made to an inverter, which is a type of static converter. Since not all static converters are covered by the term “inverter”, the prefix “ex” is used in front of HS code 8504.40.

4. Additional lists

4.1 WTO list and extracted list

In columns (5) and (6) of the table below, reference is made to the “WTO 153-list” and the “43-list”, respectively (hereinafter “the lists”). Where there is an overlap between the current document and any reference from the two lists, this is marked with “x” in the appropriate column.

4.2 WTO list

The “WTO 153-list” refers to the list of commodities specified in the Annex to WTO document JOB(07)/54 of 27 April 2007. This document concerns a non-paper by Canada, the European Communities, Japan, Korea, New Zealand, Norway, the Separate Customs Territory of Taiwan, Penghu, Kinmen and Matsu, Switzerland and the United States of America, presented pursuant to the continued work under paragraph 31 (III) of the Doha Ministerial Declaration (reduction of Customs tariff rates for environmental goods). The Annex to this WTO document tables descriptions of commodities as a basis for negotiations within the context of environmental protection, including the following areas:

- air pollution control
- management of solid and hazardous waste and recycling systems
- clean up or remediation of soil and water
- renewable energy plant
- heat and energy management

- waste water management and potable water treatment
- environmentally preferable products, based on end use or disposal characteristics
- cleaner or more resource efficient technologies and products
- natural risk management
- natural resources protection
- noise and vibration abatement
- environmental monitoring, analysis and assessment equipment

4.3 Extracted list

The “43-list” concerns 43 products (derived from the WTO 153-list) that the World Bank identified as being relevant to climate mitigation and was proposed by the United States of America and the European Communities informally to the WTO in December 2007. Therefore, an overlap between this document with this list is also an overlap with the WTO 153-list.

4.4 HS codes

It is to be noted that both lists are using HS codes from the HS 2002 edition, whereas this document uses HS codes from the 2007 edition. However, for this document there is no difference between the HS 2007 codes in column (3) and those referred to in both lists. Consequently, there was no need to convert any of these codes one way or the other.

4.5 Scope of descriptions

Appendices B and C refer to the main components of installations only, while the lists also include complete installations. This means that the overlap of HS codes covered in this document with those from the lists, is restricted. On the other hand, all environmental areas covered by the lists have been taken into account when comparing them with the HS codes in Appendices B and C.

5. Table

(1)	HS heading (2)	HS 2007 Code (3)	Frequency (4)	WTO 153-list (5)	43-list (6)
1	38.02	Ex 3802.10	2	-	-
2	38.24	Ex 3824.50	2	-	-
3		Ex 3824.90	2	-	-
4	39.26	Ex 3926.90	1	-	-
5	68.10	Ex 6810.91	2	-	-
6	70.09	Ex 7009.91	1	-	-
7		Ex 7009.92	1	-	-
8	71.15	Ex 7115.90	1	-	-
9	73.04	Ex 7304.31	6	x	-
10		Ex 7304.41	6	x	-
11		Ex 7304.51	6	x	-
12	73.08	Ex 7308.20	4	x	x
13		Ex 7308.90	9	-	-
14	73.09	Ex 7309.00	5	x	x
15	74.11	Ex 7411.21	6	-	-
16		Ex 7411.22	6	-	-

(1)	HS heading (2)	HS 2007 Code (3)	Frequency (4)	WTO 153-list (5)	43-list (6)
17		Ex 7411.29	6	-	-
18	74.19	Ex 7419.99	5	-	-
19	76.10	Ex 7610.90	7	-	-
20	76.11	Ex 7611.00	5	x	x
21	83.06	Ex 8306.30	1	-	-
22	84.05	Ex 8405.10	1	x	x
23	84.06	Ex 8406.81	1	x	x
24		Ex 8406.82	1	x	-
25	84.10	Ex 8410.11	3	x	x
26		Ex 8410.12	3	-	-
27		Ex 8410.13	3	-	-
28	84.11	8411.81	2	x	x
29		8411.82	2	x	x
30	84.12	Ex 8412.80	3	-	-
31		Ex 8412.90	3	-	-
32	84.16	Ex 8416.20	1	-	-
33	84.18	Ex 8418.61	1	x	x
34	84.19	Ex 8419.31	1	-	-
35		Ex 8419.40	2	x	x
36		Ex 8419.50	6	x	x
37		Ex 8419.89	3	x	x
38		Ex 8419.90	4	x	x
39	84.21	Ex 8421.29	3	x	-
40		Ex 8421.39	5	x	-
41	84.30	Ex 8430.41	1	-	-
41		Ex 8430.49	1	-	-
43	84.79	Ex 8479.20	2	-	-
44		Ex 8479.89	2	x	-
45	84.82	8482.10	3	-	-
46		8482.20	3	-	-
47		8482.30	3	-	-
48		8482.40	3	-	-
49		8482.50	3	-	-
50		8482.80	3	-	-
51	84.83	Ex 8483.40	3	x	x
52	85.01	Ex 85.01	1	-	-
53		8501.61	9	x	x
54		8501.62	9	x	x
55		8501.63	9	x	x
56		8501.64	9	x	x
57	85.02	8502.31	2	x	x
58		Ex 8502.39	9	x	-
59	85.03	Ex 8503.00	2	x	-
60	85.04	8504.21	5	-	-
61		8504.22	5	-	-
62		8504.23	5	-	-
63		8504.31	5	-	-
64		8504.32	5	-	-
65		8504.33	5	-	-
66		8504.34	5	-	-
67		Ex 8504.40	4	x	-
68	85.37	8537.10	3	x	x
69		8537.20	3	-	-
70	85.41	Ex 8541.40	4	x	x
71	85.44	8544.42	4	-	-
72		8544.49	4	-	-

(1)	HS heading (2)	HS 2007 Code (3)	Frequency (4)	WTO 153-list (5)	43-list (6)
73		8544.60	4	-	-
74	89.07	Ex 8907.90	1	x	-
75	90.01	Ex 9001.90	1	x	x
76	90.02	Ex 9002.90	1	x	x
77	90.05	Ex 9005.80	1	-	-
78	90.13	Ex 9013.80	1	-	-
79	90.28	9028.30	3	x	-
80	90.30	9030.20	3	x	-
81		9030.31	3	x	-
82		9030.32	3	-	-
83		9030.33	3	-	-
84		9030.39	3	x	-
85	90.32	Ex 9032.89	3	x	-

Appendix B Characterisation of Climate Mitigation Goods available on a Commercial Basis

Table B.1 *Characterisation of Climate Mitigation Goods available on Commercial Basis*

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
RENEWABLE	Solar Energy	Solar Thermal * Solar Trough	Parabolic trough reflectors	<p>Glass silver mirrors, not optically worked (i.e., not polished) : Ex 7009.91 Ex 7009.92</p> <p>Of coated silver : Ex 7115.90</p> <p>Of polished aluminium (not optically worked) : Ex 8306.30</p> <p>Of plastic film (not optically worked) : Ex 3926.90</p>	<p>Heading 70.09: Glass mirrors, whether or not framed, including rear-view mirrors. - Other : 7009.91 - - Unframed 7009.92 - - Framed</p> <p>Heading 71.15: Other articles of precious metal or of metal clad with precious metal. 7115.90 – Other</p> <p>Heading 83.06: Bells, gongs and the like, non-electric, of base metal; statuettes and other ornaments, of base metal; photograph, picture or similar frames, of base metal; mirrors of base metal. 8306.30 - Photograph, picture or similar frames; mirrors</p> <p>Heading 39.26: Other articles of plastics and articles of other materials of headings 39.01 to 39.14. 3926.90 – Other</p>	Classification depends on the constituent material.

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
				Mirrors constituting optical elements, of optically worked (polished) glass, unmounted or of any other material, unmounted : Ex 9001.90	Heading 90.01: Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked. 9001.90 – Other	
				Mirrors constituting optical elements, of optically worked (polished) glass, mounted or of any other material, mounted : Ex 9013.80	Heading 90.13: Liquid crystal devices not constituting articles provided for more specifically in other headings; lasers, other than laser diodes; other optical appliances and instruments, not specified or included elsewhere in this Chapter. 9013.80 – Other devices, appliances and instruments	
		Receiver tube or heat collection element		Seamless, of iron or non-alloy steel, cold-reduced : Ex 7304.31 Seamless, of stainless steel, cold-reduced : Ex 7304.41 Seamless, of other alloy steel, cold-reduced :	Heading 73.04: Tubes, pipes and hollow profiles, seamless, of iron (other than cast iron) or steel. - Other, of circular cross-section, of iron or non-alloy steel : 7304.31 - - Cold-drawn or cold-rolled (cold-reduced) - Other, of circular cross-section,	Classification depends on the constituent material. The receiver tube consists of a metal absorber surrounded by a glass envelope. The absorber is coated with a selective coating to maximize energy collection and to minimize heat loss. The glass envelope is used to insulate the absorber from heat

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
				Ex 7304.51	of stainless steel : 7304.41 - - Cold-drawn or cold-rolled (cold-reduced) - Other, of circular cross-section, of other alloy steel : 7304.51 - - Cold-drawn or cold-rolled (cold-reduced)	loss, and may be coated with an anti-reflective surface to increase the transmittance of light to the absorber. For high temperature CSP applications, the space between the absorber and glass tube is evacuated to form a vacuum.
				Of brass : Ex 7411.21	Heading 74.11: Copper tubes and pipes. - Of copper alloys :	
				Of cupro-nickel or nickel silver : Ex 7411.22	7411.21 - - Of copper-zinc base alloys (brass) 7411.22 - - Of copper-nickel base alloys (cupro-nickel) or copper-nickel-zinc base alloys	
				Of other copper alloys : Ex 7411.29	(nickel silver) 7411.29 - - Other	
			Sun-tracking system	Ex 8479.89	Heading 84.79: Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter. - Other machines and mechanical appliances : 8479.89 - - Other	An electronic control system and associated mechanical drive system is used to focus the reflector onto the sun.
			Support structure	Of iron or steel : Ex 7308.90	Heading 73.08: Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge-sections, lock-gates, towers, lattice masts, roofs, roofing frame-	Typically made of base metal, the collector support structure holds the mirrors in accurate alignment while resisting the effects of the wind.

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
					<p>works, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel. 7308.90 - Other</p>	
				<p>Of aluminium : Ex 7610.90</p>	<p>Heading 76.10: Aluminium structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge-sections, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, balustrades, pillars and columns); aluminium plates, rods, profiles, tubes and the like, prepared for use in structures. 7610.90 – Other</p>	
			Steam turbine/generator system	Ex 8502.39	<p>Heading 85.02: Electric generating sets and rotary converters. - Other generating sets : 8502.39 - - Other</p>	<p>This item also includes other components when presented with the turbine and generator system, such as :</p> <ul style="list-style-type: none"> • Reflectors • Heat collection elements • Sun-tracking system • Support structure
		* Solar Tower	Heliostats	Ex 9005.80	Heading 90.05:	

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
					Binoculars, monoculars, other optical telescopes, and mountings therefor; other astronomical instruments and mountings therefor, but not including instruments for radioastronomy. 9005.80 - Other instruments	
			Central receiver	Ex 8419.89	Heading 84.19: Machinery, plant or laboratory equipment, whether or not electrically heated (excluding furnaces, ovens and other equipment of heading 85.14), for the treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilising, pasteurising, steaming, drying, evaporating, vaporising, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, non-electric. - Other machinery, plant and equipment : 8419.89 - - Other	
			Steam turbine/generator system	Ex 8502.39	Heading 85.02: Electric generating sets and rotary converters. - Other generating sets : 8502.39 - - Other	This item also includes other components when presented with the turbine and generator system, such as : • Heliostats

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
		* Solar Dish	Mirrors	Ex 8503.00	Heading 85.03: Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02.	<ul style="list-style-type: none"> Heat collection elements
			Elevation and azimuth drives	Ex 85.01	Heading 85.01: Electric motors and generators (excluding generating sets).	The applicable subheading within HS heading 85.01 depends on the type and the power of the drives (electric motors).
			Main beam	Of iron or steel : Ex 7308.90	Heading 73.08: Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge-sections, lock-gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel. 7308.90 - Other	
				Of aluminium : Ex 7610.90	Heading 76.10: Aluminium structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge-sections, towers, lattice masts, roofs, roofing frameworks,	

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
					doors and windows and their frames and thresholds for doors, balustrades, pillars and columns); aluminium plates, rods, profiles, tubes and the like, prepared for use in structures. 7610.90 – Other	
			Pedestal with dish controller	Ex 8503.00	Heading 85.03: Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02.	
			Power Conversion Unit (Stirling engine)	Stirling engine with generator : Ex 8502.39	Heading 85.02: Electric generating sets and rotary converters. - Other generating sets : 8502.39 - - Other	HS code 8502.39 also includes other components when presented with the engine and generator system, such as : <ul style="list-style-type: none"> • Mirrors • Elevation and azimuth drives • Main beam • Pedestal
				Stirling engine without generator : Ex 8412.80	Heading 84.12: Other engines and motors. 8412.80 – Other	
		* Fresnel-lens	Fresnel reflector modules	Ex 9002.90	Heading 90.02: Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked. 9002.90 – Other	
			Absorber lines	Seamless, of iron or non-alloy steel, cold-reduced : Ex 7304.31	Heading 73.04: Tubes, pipes and hollow profiles, seamless, of iron (other than cast iron) or steel.	It is assumed that the expression “absorber lines” refers to tubes.

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
				Seamless, of stainless steel, cold-reduced : Ex 7304.41	- Other, of circular cross-section, of iron or non-alloy steel : 7304.31 - - Cold-drawn or cold-rolled (cold-reduced)	
				Seamless, of other alloy steel, cold-reduced : Ex 7304.51	- Other, of circular cross-section, of stainless steel : 7304.41 - - Cold-drawn or cold-rolled (cold-reduced)	
					- Other, of circular cross-section, of other alloy steel : 7304.51 - - Cold-drawn or cold-rolled (cold-reduced)	
				Of brass : Ex 7411.21	Heading 74.11: Copper tubes and pipes. - Of copper alloys :	
				Of cupro-nickel or nickel silver : Ex 7411.22	7411.21 - - Of copper-zinc base alloys (brass) 7411.22 - - Of copper-nickel base alloys (cupro-nickel) or copper-nickel-zinc base alloys	
				Of other copper alloys : Ex 7411.29	(nickel silver) 7411.29 - - Other	
			Space frame	Of iron or steel : Ex 7308.90	Heading 73.08: Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge-sections, lock-gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and	

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
					<p>columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel. 7308.90 - Other</p>	
				Of aluminium : Ex 7610.90	<p>Heading 76.10: Aluminium structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge-sections, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, balustrades, pillars and columns); aluminium plates, rods, profiles, tubes and the like, prepared for use in structures. 7610.90 – Other</p>	
			Steam turbine/generator system	Ex 8502.39	<p>Heading 85.02: Electric generating sets and rotary converters. - Other generating sets : 8502.39 - - Other</p>	<p>This item also includes other components when presented with the turbine and generator system, such as :</p> <ul style="list-style-type: none"> • Reflector modules • Absorber lines • Space frame
		Solar Heating	Flat plate collector; or	Ex 8419.90	<p>Heading 84.19: Machinery, plant or laboratory equipment, whether or not electrically heated (excluding furnaces, ovens and other equipment of</p>	

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
					<p>heading 85.14), for the treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilising, pasteurising, steaming, drying, evaporating, vaporising, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, non-electric.</p> <p>8419.90 – Parts</p>	
			Evacuated tube collector	Ex 8419.90	<p>Heading 84.19: Machinery, plant or laboratory equipment, whether or not electrically heated (excluding furnaces, ovens and other equipment of heading 85.14), for the treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilising, pasteurising, steaming, drying, evaporating, vaporising, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, non-electric.</p> <p>8419.90 – Parts</p>	

Sector	Technology	Sub-category	Main components (Auxiliary heat source)	HS 2007 Code	HS 2007 description	Observations
		Photovoltaic * Mono-cryst. Si	PV module	Ex 8541.40	Heading 85.41: Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals. 8541.40 - Photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes	
			Inverter	Ex 8504.40	Heading 85.04: Electrical transformers, static converters (for example, rectifiers) and inductors. 8504.40 - Static converters	
			(Support structure)	Of iron or steel : Ex 7308.90	Heading 73.08: Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge-sections, lock-gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and	

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
					columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel. 7308.90 - Other	
				Of aluminium : Ex 7610.90	Heading 76.10: Aluminium structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge-sections, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, balustrades, pillars and columns); aluminium plates, rods, profiles, tubes and the like, prepared for use in structures. 7610.90 – Other	
		* Poly-cryst. Si	PV module	Ex 8541.40	Heading 85.41: Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals. 8541.40 - Photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in	

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
					modules or made up into panels; light emitting diodes	
			Inverter	Ex 8504.40	Heading 85.04: Electrical transformers, static converters (for example, rectifiers) and inductors. 8504.40 - Static converters	
			(Support structure)	Of iron or steel : Ex 7308.90	Heading 73.08: Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge-sections, lock-gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel. 7308.90 - Other	
				Of aluminium : Ex 7610.90	Heading 76.10: Aluminium structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge-sections, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for	

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
					doors, balustrades, pillars and columns); aluminium plates, rods, profiles, tubes and the like, prepared for use in structures. 7610.90 – Other	
		* Thin-film PV	PV module	Ex 8541.40	Heading 85.41: Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals. 8541.40 - Photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes	
			Inverter	Ex 8504.40	Heading 85.04: Electrical transformers, static converters (for example, rectifiers) and inductors. 8504.40 - Static converters	
			(Support structure)	Of iron or steel : Ex 7308.90	Heading 73.08: Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge-sections, lock-gates, towers, lattice masts, roofs, roofing frame-	

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
					works, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel. 7308.90 - Other	
				Of aluminium : Ex 7610.90	Heading 76.10: Aluminium structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge-sections, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, balustrades, pillars and columns); aluminium plates, rods, profiles, tubes and the like, prepared for use in structures. 7610.90 – Other	
	Wind Energy	Onshore Wind	Wind turbine blades	Ex 8412.90	Heading 84.12: Other engines and motors. 8412.90 – Parts	
			Gearbox	Ex 8483.40	Heading 84.83: Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller	

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
					<p>screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints).</p> <p>8483.40 - Gears and gearing, other than toothed wheels, chain sprockets and other transmission elements presented separately; ball or roller screws; gear boxes and other speed changers, including torque converters</p>	
			Generator	<p>Of an output not exceeding 75 kVA : 8501.61</p> <p>Of an output exceeding 75 kVA but not exceeding 375 kVA : 8501.62</p> <p>Of an output exceeding 375 kVA but not exceeding 750 kVA : 8501.63</p> <p>Of an output exceeding 750 kVA : 8501.64</p>	<p>Heading 85.01: Electric motors and generators (excluding generating sets). - AC generators (alternators) : 8501.61 - - Of an output not exceeding 75 kVA 8501.62 - - Of an output exceeding 75 kVA but not exceeding 375 kVA 8501.63 - - Of an output exceeding 375 kVA but not exceeding 750 kVA 8501.64 - - Of an output exceeding 750 kVA</p>	
			Bearings	<p>Ball bearings : 8482.10</p> <p>Tapered roller bearings, including cone and</p>	<p>Heading 84.82: Ball or roller bearings. 8482.10 - Ball bearings 8482.20 - Tapered roller bearings, including cone and</p>	

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
				tapered roller assemblies : 8482.20	tapered roller assemblies 8482.30 - Spherical roller bearings	
				Spherical roller bearings : 8482.30	8482.40 - Needle roller bearings 8482.50 - Other cylindrical roller bearings	
				Needle roller bearings : 8482.40	8482.80 - Other, including combined ball/roller bearings	
				Other cylindrical roller bearings : 8482.50		
				Other roller bearings, including combined ball/roller bearings : 8482.80		
			Tower	Of iron or steel : Ex 7308.20	Heading 73.08: Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge-sections, lock-gates, towers, lattice masts, roofs, roofing frame- works, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel. 7308.20 - Towers and lattice masts	

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
			Electronic Control Equipment	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17 (including programmable controllers) : For a voltage not exceeding 1,000 V : 8537.10 For a voltage exceeding 1,000 V : 8537.20 Electricity supply or production meters : 9028.30 Oscilloscopes and oscillographs : 9030.20 Multimeters without a recording device : 9030.31	Heading 85.37: Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17. 8537.10 - For a voltage not exceeding 1,000 V 8537.20 - For a voltage exceeding 1,000 V Heading 90.28: Gas, liquid or electricity supply or production meters, including calibrating meters therefor. 9028.30 - Electricity meters Heading 90.30: Oscilloscopes, spectrum analysers and other instruments and apparatus for measuring or checking electrical quantities, excluding meters of heading 90.28;	

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
				Multimeters with a recording device : 9030.32	instruments and apparatus for measuring or detecting alpha, beta, gamma, X-ray, cosmic or other ionising radiations. 9030.20 - Oscilloscopes and oscillographs - Other instruments and apparatus, for measuring or checking voltage, current, resistance or power: 9030.31 - - Multimeters without a recording device 9030.32 - - Multimeters with a recording device 9030.33 - - Other, without a recording device 9030.39 - - Other, with a recording device	
			Other instruments and apparatus for measuring or checking voltage, current, resistance or power, without a recording device : 9030.33			
			Other instruments and apparatus for measuring or checking voltage, current, resistance or power, with a recording device : 9030.39			
			Automatic regulators, other than programmable controllers : Ex 9032.89	Heading 90.32: Automatic regulating or controlling instruments and apparatus. - Other instruments and apparatus: 9032.89 - - Other		
			Gear box with generator	Wind-powered generating sets : 8502.31	Heading 85.02: Electric generating sets and rotary converters. - Other generating sets : 8502.31 - - Wind-powered	This item concerns the gear box and generator presented together, whether or not assembled. The following components follow the same classification when presented at the same time : <ul style="list-style-type: none"> • wind turbine blades • tower • electronic equipment

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
		Offshore Wind	Wind turbine blades	Ex 8412.90	Heading 84.12: Other engines and motors. 8412.90 – Parts	• bearings
			Gearbox	Ex 8483.40	Heading 84.83: Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints). 8483.40 - Gears and gearing, other than toothed wheels, chain sprockets and other transmission elements presented separately; ball or roller screws; gear boxes and other speed changers, including torque converters	
			Generator	Of an output not exceeding 75 kVA : 8501.61 Of an output exceeding 75 kVA but not exceeding 375 kVA : 8501.62 Of an output exceeding 375 kVA but not	Heading 85.01: Electric motors and generators (excluding generating sets). - AC generators (alternators) : 8501.61 - - Of an output not exceeding 75 kVA 8501.62 - - Of an output exceeding 75 kVA but not exceeding 375 kVA 8501.63 - - Of an output exceeding 375 kVA but not	

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
				exceeding 750 kVA : 8501.63	exceeding 750 kVA 8501.64 - - Of an output exceeding 750 kVA	
				Of an output exceeding 750 kVA : 8501.64		
			Bearings	Ball bearings : 8482.10	Heading 84.82: Ball or roller bearings. 8482.10 - Ball bearings	
				Tapered roller bearings, including cone and tapered roller assemblies : 8482.20	8482.20 - Tapered roller bearings, including cone and tapered roller assemblies 8482.30 - Spherical roller bearings	
				Spherical roller bearings : 8482.30	8482.40 - Needle roller bearings 8482.50 - Other cylindrical roller bearings	
				Needle roller bearings : 8482.40	8482.80 - Other, including combined ball/roller bearings	
				Other cylindrical roller bearings : 8482.50		
				Other roller bearings, including combined ball/roller bearings : 8482.80		
			Tower	Of iron or steel : Ex 7308.20	Heading 73.08: Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge-sections, lock-gates, towers, lattice masts, roofs, roofing frame-	

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
					<p>works, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel.</p> <p>7308.20 - Towers and lattice masts</p>	
			Electronic Control Equipment	<p>Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17 (including programmable controllers) :</p> <p>For a voltage not exceeding 1,000 V : 8537.10</p> <p>For a voltage exceeding 1,000 V : 8537.20</p> <p>Electricity supply or</p>	<p>Heading 85.37: Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17.</p> <p>8537.10 - For a voltage not exceeding 1,000 V 8537.20 - For a voltage exceeding 1,000 V</p> <p>Heading 90.28:</p>	

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
				production meters : 9028.30	Gas, liquid or electricity supply or production meters, including calibrating meters therefor. 9028.30 - Electricity meters	
			Oscilloscopes and oscillographs : 9030.20		Heading 90.30: Oscilloscopes, spectrum analysers and other instruments and apparatus for measuring or checking electrical quantities, excluding meters of heading 90.28;	
			Multimeters without a recording device : 9030.31		instruments and apparatus for measuring or detecting alpha, beta, gamma, X-ray, cosmic or other ionising radiations.	
			Multimeters with a recording device : 9030.32		9030.20 - Oscilloscopes and oscillographs	
			Other instruments and apparatus for measuring or checking voltage, current, resistance or power, without a recording device : 9030.33		- Other instruments and apparatus, for measuring or checking voltage, current, resistance or power: 9030.31 - - Multimeters without a recording device 9030.32 - - Multimeters with a recording device	
			Other instruments and apparatus for measuring or checking voltage, current, resistance or power, with a recording device : 9030.39		9030.33 - - Other, without a recording device 9030.39 - - Other, with a recording device	
			Automatic regulators, other than programmable controllers : Ex 9032.89		Heading 90.32: Automatic regulating or controlling instruments and apparatus.	

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
					- Other instruments and apparatus: 9032.89 - - Other	
			Infield and export cables	For a voltage not exceeding 1,000 V, fitted with connectors : 8544.42	Insulated (including enamelled or anodised) wire, cable (including co-axial cable) and other insulated electric conductors, whether or not fitted with connectors; optical fibre cables, made up of individually sheathed fibres, whether or not assembled with electric conductors or fitted with connectors. - Other electric conductors, for a voltage not exceeding 1,000 V : 8544.42 - - Fitted with connectors 8544.49 - - Other 8544.60 - Other electric conductors, for a voltage exceeding 1,000 V	
				For a voltage not exceeding 1,000 V, not fitted with connectors : 8544.49		
				For a voltage exceeding 1,000 V : 8544.60		
			Offshore High Voltage Station	Liquid dielectric transformers, having a power handling capacity not exceeding 650 kVA : 8504.21	Heading 85.04: Electrical transformers, static converters (for example, rectifiers) and inductors. - Liquid dielectric transformers: 8504.21 - - Having a power handling capacity not exceeding 650 kVA 8504.22 - - Having a power handling capacity exceeding 650 kVA but not exceeding 10,000 kVA 8504.23 - - Having a power handling capacity exceeding	
				Liquid dielectric transformers, having a power handling capacity exceeding 650 kVA but not exceeding 10,000 kVA : 8504.22		

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
				Liquid dielectric transformers, having a power handling capacity exceeding 10,000 kVA : 8504.23	10,000 kVA - Other transformers : 8504.31 - - Having a power handling capacity not exceeding 1 kVA 8504.32 - - Having a power handling capacity exceeding 1 kVA but not exceeding 16 kVA	
				Other transformers, having a power handling capacity not exceeding 1 kVA : 8504.31	8504.33 - - Having a power handling capacity exceeding 16 kVA but not exceeding 500 kVA	
				Other transformers, having a power handling capacity exceeding 1 kVA but not exceeding 16 kVA : 8504.32	8504.34 - - Having a power handling capacity exceeding 500 kVA	
				Other transformers, having a power handling capacity exceeding 16 kVA but not exceeding 500 kVA : 8504.33		
				Other transformers, having a power handling capacity exceeding 500 kVA : 8504.34		
			Support structure (monopole or tripod & transition piece)	Of iron or steel : Ex 7308.90	Heading 73.08: Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge-sections,	

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
					lock-gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel. 7308.90 – Other	
			Gear box with generator	Wind-powered generating sets : 8502.31	Heading 85.02: Electric generating sets and rotary converters. - Other generating sets : 8502.31 - - Wind-powered	This item concerns the gear box and generator presented together, whether or not assembled. The following components follow the same classification when presented at the same time : <ul style="list-style-type: none"> • wind turbine blades • tower • support structure • electronic equipment • bearings • offshore high voltage station
	Ocean Energy	Wave Power	Wave power converter	Ex 8502.39	Heading 85.02: Electric generating sets and rotary converters. - Other generating sets : 8502.39 - - Other	
			Infield and export cables	For a voltage not exceeding 1,000 V, fitted with connectors : 8544.42 For a voltage not	Insulated (including enamelled or anodised) wire, cable (including co-axial cable) and other insulated electric conductors, whether or not fitted with connectors; optical	

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
				exceeding 1,000 V, not fitted with connectors : 8544.49	fibre cables, made up of individually sheathed fibres, whether or not assembled with electric conductors or fitted with connectors. - Other electric conductors, for a voltage not exceeding 1,000 V : 8544.42 - - Fitted with connectors 8544.49 - - Other 8544.60 - Other electric conductors, for a voltage exceeding 1,000 V	
				For a voltage exceeding 1,000 V : 8544.60		
			Offshore High Voltage Station (OHVS)	Liquid dielectric transformers, having a power handling capacity not exceeding 650 kVA : 8504.21	Heading 85.04: Electrical transformers, static converters (for example, rectifiers) and inductors. - Liquid dielectric transformers: 8504.21 - - Having a power handling capacity not exceeding 650 kVA 8504.22 - - Having a power handling capacity exceeding 650 kVA but not exceeding 10,000 kVA 8504.23 - - Having a power handling capacity exceeding 10,000 kVA - Other transformers : 8504.31 - - Having a power handling capacity not exceeding 1 kVA 8504.32 - - Having a power handling capacity exceeding 1 kVA but not exceeding 16 kVA 8504.33 - - Having a power handling capacity exceeding 16	
				Liquid dielectric transformers, having a power handling capacity exceeding 650 kVA but not exceeding 10,000 kVA : 8504.22		
				Liquid dielectric transformers, having a power handling capacity exceeding 10,000 kVA : 8504.23		
				Other transformers, having a power handling capacity not exceeding 1 kVA :		

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
				8504.31	kVA but not exceeding 500 kVA	
			Other transformers, having a power handling capacity exceeding 1 kVA but not exceeding 16 kVA :	8504.32	8504.34 - - Having a power handling capacity exceeding 500 kVA	
			Other transformers, having a power handling capacity exceeding 16 kVA but not exceeding 500 kVA :	8504.33		
			Other transformers, having a power handling capacity exceeding 500 kVA :	8504.34		
		Tidal Stream Power	Tidal stream power converter	Ex 8502.39	Heading 85.02: Electric generating sets and rotary converters. - Other generating sets : 8502.39 - - Other	
			Infield and export cables	For a voltage not exceeding 1,000 V, fitted with connectors : 8544.42	Insulated (including enamelled or anodised) wire, cable (including co-axial cable) and other insulated electric conductors, whether or not fitted with connectors; optical fibre cables, made up of individually sheathed fibres, whether or not assembled with electric conductors or fitted	
				For a voltage not exceeding 1,000 V, not fitted with connectors : 8544.49		

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
				For a voltage exceeding 1,000 V : 8544.60	with connectors. - Other electric conductors, for a voltage not exceeding 1,000 V : 8544.42 - - Fitted with connectors 8544.49 - - Other 8544.60 - Other electric conductors, for a voltage exceeding 1,000 V	
		OHVS		Liquid dielectric transformers, having a power handling capacity not exceeding 650 kVA : 8504.21	Heading 85.04: Electrical transformers, static converters (for example, rectifiers) and inductors. - Liquid dielectric transformers: 8504.21 - - Having a power handling capacity not exceeding 650 kVA	
				Liquid dielectric transformers, having a power handling capacity exceeding 650 kVA but not exceeding 10,000 kVA : 8504.22	8504.22 - - Having a power handling capacity exceeding 650 kVA but not exceeding 10,000 kVA 8504.23 - - Having a power handling capacity exceeding 10,000 kVA	
				Liquid dielectric transformers, having a power handling capacity exceeding 10,000 kVA : 8504.23	- Other transformers : 8504.31 - - Having a power handling capacity not exceeding 1 kVA 8504.32 - - Having a power handling capacity exceeding 1 kVA but not exceeding 16 kVA	
				Other transformers, having a power handling capacity not exceeding 1 kVA : 8504.31	8504.33 - - Having a power handling capacity exceeding 16 kVA but not exceeding 500 kVA 8504.34 - - Having a power handling capacity exceeding 500 kVA	
				Other transformers, having a power handling	kVA	

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
				capacity exceeding 1 kVA but not exceeding 16 kVA : 8504.32		
				Other transformers, having a power handling capacity exceeding 16 kVA but not exceeding 500 kVA : 8504.33		
				Other transformers, having a power handling capacity exceeding 500 kVA : 8504.34		
	Geothermal Energy	Geothermal Power	Pipes	Seamless, of iron or non-alloy steel, cold-reduced : Ex 7304.31	Heading 73.04: Tubes, pipes and hollow profiles, seamless, of iron (other than cast iron) or steel.	
				Seamless, of stainless steel, cold-reduced : Ex 7304.41	- Other, of circular cross-section, of iron or non-alloy steel : 7304.31 - - Cold-drawn or cold-rolled (cold-reduced)	
				Seamless, of other alloy steel, cold-reduced : Ex 7304.51	- Other, of circular cross-section, of stainless steel : 7304.41 - - Cold-drawn or cold-rolled (cold-reduced)	
					- Other, of circular cross-section, of other alloy steel : 7304.51 - - Cold-drawn or cold-rolled (cold-reduced)	
				Of brass :	Heading 74.11:	

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
				Ex 7411.21	Copper tubes and pipes. - Of copper alloys :	
			Of cupro-nickel or nickel silver :	7411.21	- - Of copper-zinc base alloys (brass)	
			Ex 7411.22	7411.22	- - Of copper-nickel base alloys (cupro-nickel) or copper-nickel-zinc base alloys (nickel silver)	
			Of other copper alloys :	Ex 7411.29	7411.29	- - Other
			Heat exchangers	8419.50	Heading 84.19: Machinery, plant or laboratory equipment, whether or not electrically heated (excluding furnaces, ovens and other equipment of heading 85.14), for the treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilising, pasteurising, steaming, drying, evaporating, vaporising, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, non-electric. 8419.50 – Heat exchange units	
			Steam turbine/generator / Organic Rankine Cycle (ORC) system	Ex 8502.39	Heading 85.02: Electric generating sets and rotary converters. - Other generating sets : 8502.39 - - Other	

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
		Geothermal Heat	Pipes	Seamless, of iron or non-alloy steel, cold-reduced : Ex 7304.31 Seamless, of stainless steel, cold-reduced : Ex 7304.41 Seamless, of other alloy steel, cold-reduced : Ex 7304.51	Heading 73.04: Tubes, pipes and hollow profiles, seamless, of iron (other than cast iron) or steel. - Other, of circular cross-section, of iron or non-alloy steel : 7304.31 - - Cold-drawn or cold-rolled (cold-reduced) - Other, of circular cross-section, of stainless steel : 7304.41 - - Cold-drawn or cold-rolled (cold-reduced) - Other, of circular cross-section, of other alloy steel : 7304.51 - - Cold-drawn or cold-rolled (cold-reduced)	
				Of brass : Ex 7411.21 Of cupro-nickel or nickel silver : Ex 7411.22 Of other copper alloys : Ex 7411.29	Heading 74.11: Copper tubes and pipes. - Of copper alloys : 7411.21 - - Of copper-zinc base alloys (brass) 7411.22 - - Of copper-nickel base alloys (cupro-nickel) or copper-nickel-zinc base alloys (nickel silver) 7411.29 - - Other	
			Heat exchangers	8419.50	Heading 84.19: Machinery, plant or laboratory equipment, whether or not electrically heated (excluding furnaces, ovens and other equipment of heading 85.14), for the treatment of materials by a	

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
					<p>process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilising, pasteurising, steaming, drying, evaporating, vaporising, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, non-electric.</p> <p>8419.50 – Heat exchange units</p>	
		Geothermal heat pump	Earth coil heat exchanger (ECHX)	Ex 8419.50	<p>Heading 84.19: Machinery, plant or laboratory equipment, whether or not electrically heated (excluding furnaces, ovens and other equipment of heading 85.14), for the treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilising, pasteurising, steaming, drying, evaporating, vaporising, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, non-electric.</p> <p>8419.50 – Heat exchange units</p>	
			Ground Source Heat Pump (GSHP)	Ex 8418.61	<p>Heading 84.18: Refrigerators, freezers and</p>	

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
					other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15. 8418.61 - - Heat pumps other than air conditioning machines of heading 84.15	
	Hydro Power	Large hydro (> 10 MW _e)	Dam (concrete)	Ex 3824.50	Heading 38.24: Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included. 3824.50 - Non-refractory mortars and concretes	A dam is not a movable article and, therefore, not classifiable in the HS. The HS-code refers to concrete in fluid form and prefabricated structural components for building and civil engineering, respectively.
				Ex 6810.91	Heading 68.10: Articles of cement, of concrete or of artificial stone, whether or not reinforced. - Other articles : 6810.91 - - Prefabricated structural components for building or civil engineering	
			Pelton, Francis, or Kaplan turbine	Of a power not exceeding 1,000 W : Ex 8410.11 Of a power exceeding 1,000 W but not exceeding 10,000 W :	Heading 84.10: Hydraulic turbines, water wheels, and regulators therefor. - Hydraulic turbines and water wheels : 8410.11 - - Of a power not	

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
				Ex 8410.12	exceeding 1,000 kW	
				Of a power exceeding 10,000 W :	8410.12 - - Of a power exceeding 1,000 kW but not exceeding 10,000 kW	
				Ex 8410.13	8410.13 - - Of a power exceeding 10,000 kW	
			Generator	Of an output not exceeding 75 kVA :	Heading 85.01: Electric motors and generators (excluding generating sets).	
				8501.61	- AC generators (alternators) :	
				Of an output exceeding 75 kVA but not exceeding 375 kVA :	8501.61 - - Of an output not exceeding 75 kVA	
				8501.62	8501.62 - - Of an output exceeding 75 kVA but not exceeding 375 kVA	
				Of an output exceeding 375 kVA but not exceeding 750 kVA :	8501.63 - - Of an output exceeding 375 kVA but not exceeding 750 kVA	
				8501.63	8501.64 - - Of an output exceeding 750 kVA	
				Of an output exceeding 750 kVA :		
				8501.64		
			High Voltage Transformer Station	Liquid dielectric transformers, having a power handling capacity not exceeding 650 kVA :	Heading 85.04: Electrical transformers, static converters (for example, rectifiers) and inductors.	
				8504.21	- Liquid dielectric transformers:	
				Liquid dielectric transformers, having a power handling capacity exceeding 650 kVA but not exceeding 10,000 kVA :	8504.21 - - Having a power handling capacity not exceeding 650 kVA	
				8504.22	8504.22 - - Having a power handling capacity exceeding 650 kVA but not exceeding 10,000 kVA	
					8504.23 - - Having a power	

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
				Liquid dielectric transformers, having a power handling capacity exceeding 10,000 kVA : 8504.23	handling capacity exceeding 10,000 kVA - Other transformers : 8504.31 - - Having a power handling capacity not exceeding 1 kVA 8504.32 - - Having a power handling capacity exceeding 1 kVA but not exceeding 16 kVA	
				Other transformers, having a power handling capacity not exceeding 1 kVA : 8504.31	8504.33 - - Having a power handling capacity exceeding 16 kVA but not exceeding 500 kVA 8504.34 - - Having a power handling capacity exceeding 500 kVA	
				Other transformers, having a power handling capacity exceeding 1 kVA but not exceeding 16 kVA : 8504.32		
				Other transformers, having a power handling capacity exceeding 16 kVA but not exceeding 500 kVA : 8504.33		
				Other transformers, having a power handling capacity exceeding 500 kVA : 8504.34		
		Small hydro (1–10 MW _e)	Dam (concrete)	Ex 3824.50	Heading 38.24: Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied	A dam is not a movable article and, therefore, not classifiable in the HS. The HS-code refers to concrete in fluid form and prefabricated structural components for building

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
					industries (including those consisting of mixtures of natural products), not elsewhere specified or included. 3824.50 - Non-refractory mortars and concretes	and civil engineering, respectively.
				Ex 6810.91	Heading 68.10: Articles of cement, of concrete or of artificial stone, whether or not reinforced. - Other articles : 6810.91 - - Prefabricated structural components for building or civil engineering	
			Kaplan, propeller, or tubular turbine	Of a power not exceeding 1,000 W : Ex 8410.11 Of a power exceeding 1,000 W but not exceeding 10,000 W : Ex 8410.12 Of a power exceeding 10,000 W : Ex 8410.13	Heading 84.10: Hydraulic turbines, water wheels, and regulators therefor. - Hydraulic turbines and water wheels : 8410.11 - - Of a power not exceeding 1,000 kW 8410.12 - - Of a power exceeding 1,000 kW but not exceeding 10,000 kW 8410.13 - - Of a power exceeding 10,000 kW	
			Generator	Of an output not exceeding 75 kVA : 8501.61 Of an output exceeding 75 kVA but not exceeding 375 kVA :	Heading 85.01: Electric motors and generators (excluding generating sets). - AC generators (alternators) : 8501.61 - - Of an output not exceeding 75 kVA 8501.62 - - Of an output	

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
				8501.62	exceeding 75 kVA but not exceeding 375 kVA	
				Of an output exceeding 375 kVA but not exceeding 750 kVA :	8501.63 - - Of an output exceeding 375 kVA but not exceeding 750 kVA	
				8501.63	8501.64 - - Of an output exceeding 750 kVA	
				Of an output exceeding 750 kVA :		
				8501.64		
		Micro hydro (<1 MW _e)	Propeller or tubular turbine	Of a power not exceeding 1,000 W :	Heading 84.10: Hydraulic turbines, water wheels, and regulators therefor.	
				Ex 8410.11		
				Of a power exceeding 1,000 W but not exceeding 10,000 W :	- Hydraulic turbines and water wheels :	
				Ex 8410.12	8410.11 - - Of a power not exceeding 1,000 kW	
				Of a power exceeding 10,000 W :	8410.12 - - Of a power exceeding 1,000 kW but not exceeding 10,000 kW	
				Ex 8410.13	8410.13 - - Of a power exceeding 10,000 kW	
			Generator	Of an output not exceeding 75 kVA :	Heading 85.01: Electric motors and generators (excluding generating sets).	
				8501.61	- AC generators (alternators) :	
				Of an output exceeding 75 kVA but not exceeding 375 kVA :	8501.61 - - Of an output not exceeding 75 kVA	
				8501.62	8501.62 - - Of an output exceeding 75 kVA but not exceeding 375 kVA	
				Of an output exceeding 375 kVA but not exceeding 750 kVA :	8501.63 - - Of an output exceeding 375 kVA but not exceeding 750 kVA	
				8501.63	8501.64 - - Of an output	

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
				Of an output exceeding 750 kVA : 8501.64	exceeding 750 kVA	
	Biomass	Biomass-based Power or CHP * Fluidised bed combustion	Boiler	Furnace burner for liquid fuel, pulverised solid fuel or gas : Ex 8416.20	Heading 84.16: Furnace burners for liquid fuel, for pulverised solid fuel or for gas; mechanical stokers, including their mechanical grates, mechanical ash dischargers and similar appliances. 8416.20 - Other furnace burners, including combination burners	
				Burner including or combined with components holding the material to be heated : Ex 8419.89	Heading 84.19: Machinery, plant or laboratory equipment, whether or not electrically heated (excluding furnaces, ovens and other equipment of heading 85.14), for the treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilising, pasteurising, steaming, drying, evaporating, vaporising, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, non- electric.	

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
					- Other machinery, plant and equipment : 8419.89 – Other	
			Steam turbine	Of an output exceeding 40 MW : Ex 8406.81 Of an output not exceeding 40 MW : Ex 8406.82	Heading 84.06: Steam turbines and other vapour turbines. - Other turbines : 8406.81 - - Of an output exceeding 40 MW 8406.82 - - Of an output not exceeding 40 MW	
			Generator	Of an output not exceeding 75 kVA : 8501.61 Of an output exceeding 75 kVA but not exceeding 375 kVA : 8501.62 Of an output exceeding 375 kVA but not exceeding 750 kVA : 8501.63 Of an output exceeding 750 kVA : 8501.64	Heading 85.01: Electric motors and generators (excluding generating sets). - AC generators (alternators) : 8501.61 - - Of an output not exceeding 75 kVA 8501.62 - - Of an output exceeding 75 kVA but not exceeding 375 kVA 8501.63 - - Of an output exceeding 375 kVA but not exceeding 750 kVA 8501.64 - - Of an output exceeding 750 kVA	
			Gas cleaning	Ex 8421.39	Heading 84.21: Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases. - Filtering or purifying machinery and apparatus for	The description refers to a process, which is not classifiable in the HS. The HS-code refers to the apparatus used for such processes, i.e., apparatus for filtering or purifying gases.

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
					gases : 8421.39 - - Other	
		* (Small-scale) gasification	Gasifier	Container of a capacity exceeding 300 l, of iron or steel, not fitted with mechanical or thermal equipment : Ex 7309.00	Heading 73.09: Reservoirs, tanks, vats and similar containers for any material (other than compressed or liquefied gas), of iron or steel, of a capacity exceeding 300 l, whether or not lined or heat-insulated, but not fitted with mechanical or thermal equipment.	
				Container of a capacity exceeding 300 l, of copper, not fitted with mechanical or thermal equipment : Ex 7419.99	Heading 74.19: Other articles of copper. - Other : 7419.99 - - Other	
				Container of a capacity exceeding 300 l, of aluminium, not fitted with mechanical or thermal equipment : Ex 7611.00	Heading 76.11: Aluminium reservoirs, tanks, vats and similar containers, for any material (other than compressed or liquefied gas), of a capacity exceeding 300 l, whether or not lined or heat-insulated, but not fitted with mechanical or thermal equipment.	
			Gas cleaning	Ex 8421.39	Heading 84.21: Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases. - Filtering or purifying	The description refers to a process, which is not classifiable in the HS. The HS-code refers to the apparatus used for such processes, i.e., apparatus for filtering or purifying gases.

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
					machinery and apparatus for gases : 8421.39 - - Other	
			Gas turbine or gas engine	Gas turbine, of a power not exceeding 5,000 kW : 8411.81	Heading 84.11: Turbo-jets, turbo-propellers and other gas turbines. - Other gas turbines :	
				Gas turbine, of a power exceeding 5,000 kW : 8411.82	8411.81 - - Of a power not exceeding 5,000 kW 8411.82 - - Of a power exceeding 5,000 kW	
				Gas engine : Ex 8412.80	Heading 84.12: Other engines and motors. 8412.80 - Other	
			Generator	Of an output not exceeding 75 kVA : 8501.61	Heading 85.01: Electric motors and generators (excluding generating sets). - AC generators (alternators) :	
				Of an output exceeding 75 kVA but not exceeding 375 kVA : 8501.62	8501.61 - - Of an output not exceeding 75 kVA 8501.62 - - Of an output exceeding 75 kVA but not exceeding 375 kVA	
				Of an output exceeding 375 kVA but not exceeding 750 kVA : 8501.63	8501.63 - - Of an output exceeding 375 kVA but not exceeding 750 kVA 8501.64 - - Of an output exceeding 750 kVA	
				Of an output exceeding 750 kVA : 8501.64		
		Digestion (biogas)	Anaerobic digester	Ex 8479.89	Heading 84.79: Machines and mechanical appliances having individual	The description refers to a process, which is not classifiable in the HS. The HS-code refers to the apparatus

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
					functions, not specified or included elsewhere in this Chapter. - Other machines and mechanical appliances : 8479.89 - - Other	used for such processes (i.e., apparatus fitted with mechanical (stirring) devices).
			Gas cleaning (CO ₂)	Ex 8421.39	Heading 84.21: Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases. - Filtering or purifying machinery and apparatus for gases : 8421.39 - - Other	The description refers to a process, which is not classifiable in the HS. The HS-code refers to the apparatus used for such processes (i.e., filtering or purifying apparatus for gases).
			(Gas engine)	Ex 8412.80	Heading 84.12: Other engines and motors. 8412.80 – Other	
		Pure Plant Oil	Oil mill based on cold pressing	Ex 8479.20	Heading 84.79: Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter. 8479.20 - Machinery for the extraction or preparation of animal or fixed vegetable fats or oils	The description refers to a process, which is not classifiable in the HS. The HS-code refers to the apparatus used for such processes (i.e., machinery for the extraction of animal or fixed vegetable fats or oils).
			Filtering	Ex 8421.29	Heading 84.21: Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases. - Filtering or purifying	The description refers to a process, which is not classifiable in the HS. The HS-code refers to the apparatus used for such processes (i.e., filtering or purifying apparatus for liquids).

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
					machinery and apparatus for liquids: 8421.29 - - Other	
		Bio-ethanol (1 st generation)	Fermentation	Container of a capacity exceeding 300 l, of iron or steel, not fitted with mechanical or thermal equipment : Ex 7309.00	Heading 73.09: Reservoirs, tanks, vats and similar containers for any material (other than compressed or liquefied gas), of iron or steel, of a capacity exceeding 300 l, whether or not lined or heat-insulated, but not fitted with mechanical or thermal equipment.	The description refers to a process, which is not classifiable in the HS. The HS-codes refer to the apparatus used for such processes (i.e., non-mechanical or thermal containers).
				Container of a capacity exceeding 300 l, of copper, not fitted with mechanical or thermal equipment : Ex 7419.99	Heading 74.19: Other articles of copper. - Other : 7419.99 - - Other	
				Container of a capacity exceeding 300 l, of aluminium, not fitted with mechanical or thermal equipment : Ex 7611.00	Heading 76.11: Aluminium reservoirs, tanks, vats and similar containers, for any material (other than compressed or liquefied gas), of a capacity exceeding 300 l, whether or not lined or heat-insulated, but not fitted with mechanical or thermal equipment.	
			Distillation	Ex 8419.40	Heading 84.19: Machinery, plant or laboratory equipment, whether or not electrically heated (excluding furnaces,	The description refers to a process, which is not classifiable in the HS. The HS-code refers to the apparatus used for such processes (i.e., distilling plant).

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
					<p>ovens and other equipment of heading 85.14), for the treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilising, pasteurising, steaming, drying, evaporating, vaporising, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, non-electric.</p> <p>8419.40 – Distilling or rectifying plant</p>	
			Purification (mol sieve)	Carbon molecular sieve : Ex 3802.10	<p>Heading 38.02: Activated carbon; activated natural mineral products; animal black, including spent animal black.</p> <p>3802.10 - Activated carbon</p>	The description refers to a process, which is not classifiable in the HS. The HS-codes refer to the constituent material for such processes; this list is, however, not exhaustive.
				Chemicals not elsewhere specified or included, e.g., aluminium silicate : Ex 3824.90	<p>Heading 38.24: Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included.</p> <p>3824.90 - Other</p>	
		Biodiesel (1 st)	Crushing	Ex 8479.20	Heading 84.79:	The description refers to a process,

Sector	Technology	Sub-category generation)	Main components	HS 2007 Code	HS 2007 description	Observations
					<p>Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter.</p> <p>8479.20 - Machinery for the extraction or preparation of animal or fixed vegetable fats or oils</p>	<p>which is not classifiable in the HS. The HS-code refers to the apparatus used for such processes (i.e., machinery for the extraction of animal or fixed vegetable fats or oils).</p>
			Transesterification	Ex 8419.89	<p>Heading 84.19: Machinery, plant or laboratory equipment, whether or not electrically heated (excluding furnaces, ovens and other equipment of heading 85.14), for the treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilising, pasteurising, steaming, drying, evaporating, vaporising, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, non-electric. - Other machinery, plant and equipment : 8419.89 – Other</p>	<p>The description refers to a process, which is not classifiable in the HS. The HS-code refers to the apparatus used for such processes (i.e., heating vessels, vats, etc., whether or not equipped with mechanical devices).</p>
			Refining	Ex 8421.29	<p>Heading 84.21: Centrifuges, including centrifugal dryers; filtering or purifying machinery and</p>	<p>The description refers to a process, which is not classifiable in the HS. The HS-code refers to the apparatus used for such processes (i.e.,</p>

Sector	Technology	Sub-category	Main components	HS 2007 Code	HS 2007 description	Observations
					apparatus, for liquids or gases. - Filtering or purifying machinery and apparatus for liquids: 8421.29 - - Other	purifying machinery or apparatus for liquids).
			Drying	Ex 8419.31	Heading 84.19: Machinery, plant or laboratory equipment, whether or not electrically heated (excluding furnaces, ovens and other equipment of heading 85.14), for the treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilising, pasteurising, steaming, drying, evaporating, vaporising, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, non-electric. - Dryers : 8419.31 - - For agricultural products	The description refers to a process, which is not classifiable in the HS. The HS-code refers to the apparatus used for such processes (i.e., dryers for agricultural products).

Appendix C Characterisation of Climate Mitigation Goods Undergoing R&D with Strong Prospects for Commercialisation

Table C.1 *Characterisation of Climate Mitigation Goods with strong Prospects for Commercialisation*

Sector	Technology	Technology sub-category	Main components	HS 2007 Code/ Ex-out	HS 2007 description	Observations
RENEWABLE	Solar Energy	Solar heating & seasonal storage	Flat plate collector	Ex 8419.90	Heading 84.19: Machinery, plant or laboratory equipment, whether or not electrically heated (excluding furnaces, ovens and other equipment of heading 85.14), for the treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilising, pasteurising, steaming, drying, evaporating, vaporising, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, non-electric. 8419.90 – Parts	
			Evacuated tube collector	Ex 8419.90	Heading 84.19: Machinery, plant or laboratory equipment, whether or not electrically heated (excluding furnaces, ovens and other equipment of heading 85.14), for the	

Sector	Technology	Technology sub-category	Main components	HS 2007 Code/ Ex-out	HS 2007 description	Observations
					<p>treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilising, pasteurising, steaming, drying, evaporating, vaporising, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, non-electric.</p> <p>8419.90 – Parts</p>	
			Heat storage device	Ex 8419.50	<p>Heading 84.19: Machinery, plant or laboratory equipment, whether or not electrically heated (excluding furnaces, ovens and other equipment of heading 85.14), for the treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilising, pasteurising, steaming, drying, evaporating, vaporising, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, non-electric.</p> <p>8419.50 – Heat exchange units</p>	

Sector	Technology	Technology sub-category	Main components	HS 2007 Code/ Ex-out	HS 2007 description	Observations
		Photovoltaic Nanotechnology	PV module based on “nanotechnology PV cells”	Ex 8541.40	Heading 85.41: Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals. 8541.40 - Photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes	
			Inverter	Ex 8504.40	Heading 85.04: Electrical transformers, static converters (for example, rectifiers) and inductors. 8504.40 - Static converters	
			(Support structure)	Ex 7308.90	Heading 73.08: Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge-sections, lock-gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel;	

Sector	Technology	Technology sub-category	Main components	HS 2007 Code/ Ex-out	HS 2007 description	Observations
					plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel. 7308.90 – Other	
				Ex 7610.90	Heading 76.10: Aluminium structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge-sections, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, balustrades, pillars and columns); aluminium plates, rods, profiles, tubes and the like, prepared for use in structures. 7610.90 – Other	
	Wind Energy	Floating Offshore Wind	Wind turbine blades	Ex 8412.90	Heading 84.12: Other engines and motors. 8412.90 – Parts	
			Gear box	Ex 8483.40	Heading 84.83: Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley	

Sector	Technology	Technology sub-category	Main components	HS 2007 Code/ Ex-out	HS 2007 description	Observations
					blocks; clutches and shaft couplings (including universal joints). 8483.40 - Gears and gearing, other than toothed wheels, chain sprockets and other transmission elements presented separately; ball or roller screws; gear boxes and other speed changers, including torque converters	
			Generator	Of an output not exceeding 75 kVA : 8501.61 Of an output exceeding 75 kVA but not exceeding 375 kVA : 8501.62 Of an output exceeding 375 kVA but not exceeding 750 kVA : 8501.63 Of an output exceeding 750 kVA : 8501.64	Heading 85.01: Electric motors and generators (excluding generating sets). - AC generators (alternators) : 8501.61 - - Of an output not exceeding 75 kVA 8501.62 - - Of an output exceeding 75 kVA but not exceeding 375 kVA 8501.63 - - Of an output exceeding 375 kVA but not exceeding 750 kVA 8501.64 - - Of an output exceeding 750 kVA	
			Bearings	Ball bearings : 8482.10 Tapered roller bearings, including cone and tapered roller assemblies : 8482.20	Heading 84.82: Ball or roller bearings. 8482.10 - Ball bearings 8482.20 - Tapered roller bearings, including cone and tapered roller assemblies 8482.30 - Spherical roller bearings	

Sector	Technology	Technology sub-category	Main components	HS 2007 Code/ Ex-out	HS 2007 description	Observations
				Spherical roller bearings : 8482.30	8482.40 - Needle roller bearings 8482.50 - Other cylindrical roller bearings	
				Needle roller bearings : 8482.40	8482.80 - Other, including combined ball/roller bearings	
				Other cylindrical roller bearings : 8482.50		
				Other roller bearings, including combined ball/roller bearings : 8482.80		
			Tower	Of iron or steel : Ex 7308.20	Heading 73.08: Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge-sections, lock-gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel. 7308.20 - Towers and lattice masts	
			Electronic Control Equipment	Boards, panels, consoles, desks, cabinets and other	Heading 85.37: Boards, panels, consoles,	

Sector	Technology	Technology sub-category	Main components	HS 2007 Code/ Ex-out	HS 2007 description	Observations
				<p>bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17 (including programmable controllers) :</p> <p>For a voltage not exceeding 1,000 V : 8537.10</p> <p>For a voltage exceeding 1,000 V : 8537.20</p> <p>Electricity supply or production meters : 9028.30</p> <p>Oscilloscopes and oscillographs : 9030.20</p> <p>Multimeters without a recording device : 9030.31</p>	<p>desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17.</p> <p>8537.10 - For a voltage not exceeding 1,000 V 8537.20 - For a voltage exceeding 1,000 V</p> <p>Heading 90.28: Gas, liquid or electricity supply or production meters, including calibrating meters therefor. 9028.30 - Electricity meters</p> <p>Heading 90.30: Oscilloscopes, spectrum analysers and other instruments and apparatus for measuring or checking electrical quantities, excluding meters of heading 90.28;</p>	

Sector	Technology	Technology sub-category	Main components	HS 2007 Code/ Ex-out	HS 2007 description	Observations
				Multimeters with a recording device : 9030.32	instruments and apparatus for measuring or detecting alpha, beta, gamma, X-ray, cosmic or other ionising radiations. 9030.20 - Oscilloscopes and oscillographs - Other instruments and apparatus, for measuring or checking voltage, current, resistance or power: 9030.31 - - Multimeters without a recording device 9030.32 - - Multimeters with a recording device 9030.33 - - Other, without a recording device 9030.39 - - Other, with a recording device	
				Other instruments and apparatus for measuring or checking voltage, current, resistance or power, without a recording device : 9030.33		
				Other instruments and apparatus for measuring or checking voltage, current, resistance or power, with a recording device : 9030.39		
				Automatic regulators, other than programmable controllers : Ex 9032.89		Heading 90.32: Automatic regulating or controlling instruments and apparatus. - Other instruments and apparatus: 9032.89 - - Other
			Infield and export cables	For a voltage not exceeding 1,000 V, fitted with connectors : 8544.42	Insulated (including enamelled or anodised) wire, cable (including co-axial cable) and other insulated electric conductors, whether or not fitted with connectors; optical fibre cables, made up of individually sheathed fibres,	
				For a voltage not exceeding 1,000 V, not fitted with connectors :		

Sector	Technology	Technology sub-category	Main components	HS 2007 Code/ Ex-out	HS 2007 description	Observations
				8544.49	whether or not assembled with electric conductors or fitted with connectors.	
				For a voltage exceeding 1,000 V :	- Other electric conductors, for a voltage not exceeding 1,000 V :	
				8544.60	8544.42 - - Fitted with connectors 8544.49 - - Other 8544.60 - Other electric conductors, for a voltage exceeding 1,000 V	
			Offshore High Voltage Station	Liquid dielectric transformers, having a power handling capacity not exceeding 650 kVA :	Heading 85.04: Electrical transformers, static converters (for example, rectifiers) and inductors.	
				8504.21	- Liquid dielectric transformers: 8504.21 - - Having a power handling capacity not exceeding 650 kVA	
				Liquid dielectric transformers, having a power handling capacity exceeding 650 kVA but not exceeding 10,000 kVA :	8504.22 - - Having a power handling capacity exceeding 650 kVA but not exceeding 10,000 kVA	
				8504.22	8504.23 - - Having a power handling capacity exceeding 10,000 kVA	
				Liquid dielectric transformers, having a power handling capacity exceeding 10,000 kVA :	- Other transformers :	
				8504.23	8504.31 - - Having a power handling capacity not exceeding 1 kVA	
				Other transformers, having a power handling capacity not exceeding 1 kVA :	8504.32 - - Having a power handling capacity exceeding 1 kVA but not exceeding 16 kVA	
				8504.31	8504.33 - - Having a power handling capacity exceeding 16 kVA but not exceeding 500 kVA	

Sector	Technology	Technology sub-category	Main components	HS 2007 Code/ Ex-out	HS 2007 description	Observations
				Other transformers, having a power handling capacity exceeding 1 kVA but not exceeding 16 kVA : 8504.32	8504.34 - - Having a power handling capacity exceeding 500 kVA	
				Other transformers, having a power handling capacity exceeding 16 kVA but not exceeding 500 kVA : 8504.33		
				Other transformers, having a power handling capacity exceeding 500 kVA : 8504.34		
			Floating support structure	Ex 8907.90	Heading 89.07: Other floating structures (for example, rafts, tanks, cofferdams, landing-stages, buoys and beacons). 8907.90 - Other	
			Gear box with generator	Wind-powered generating sets : 8502.31	Heading 85.02: Electric generating sets and rotary converters. - Other generating sets : 8502.31 - - Wind-powered	This item concerns the gear box and generator presented together, whether or not assembled. The following components follow the same classification when presented at the same time : <ul style="list-style-type: none"> • wind turbine blades • tower • electronic equipment

Sector	Technology	Technology sub-category	Main components	HS 2007 Code/ Ex-out	HS 2007 description	Observations
						<ul style="list-style-type: none"> • bearings • offshore high voltage station • floating support structure
	Geothermal Energy	Small-scale Geothermal Power	Pipes	<p>Seamless, of iron or non-alloy steel, cold-reduced : Ex 7304.31</p> <p>Seamless, of stainless steel, cold-reduced : Ex 7304.41</p> <p>Seamless, of other alloy steel, cold-reduced : Ex 7304.51</p> <p>Of brass : Ex 7411.21</p> <p>Of cupro-nickel or nickel silver : Ex 7411.22</p> <p>Of other copper alloys : Ex 7411.29</p>	<p>Heading 73.04: Tubes, pipes and hollow profiles, seamless, of iron (other than cast iron) or steel.</p> <p>- Other, of circular cross-section, of iron or non-alloy steel : 7304.31 - - Cold-drawn or cold-rolled (cold-reduced)</p> <p>- Other, of circular cross-section, of stainless steel : 7304.41 - - Cold-drawn or cold-rolled (cold-reduced)</p> <p>- Other, of circular cross-section, of other alloy steel : 7304.51 - - Cold-drawn or cold-rolled (cold-reduced)</p> <p>Heading 74.11: Copper tubes and pipes.</p> <p>- Of copper alloys :</p> <p>7411.21 - - Of copper-zinc base alloys (brass) 7411.22 - - Of copper-nickel base alloys (cupro-nickel) or copper-nickel-zinc base alloys (nickel silver) 7411.29 - - Other</p>	
			Heat exchangers	Ex 8419.50	Heading 84.19: Machinery, plant or laboratory equipment,	

Sector	Technology	Technology sub-category	Main components	HS 2007 Code/ Ex-out	HS 2007 description	Observations
					<p>whether or not electrically heated (excluding furnaces, ovens and other equipment of heading 85.14), for the treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilising, pasteurising, steaming, drying, evaporating, vaporising, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, non-electric.</p> <p>8419.50 – Heat exchange units</p>	
			Organic Rankine Cycle system	Ex 8502.39	<p>Heading 85.02: Electric generating sets and rotary converters.</p> <p>- Other generating sets : 8502.39 - - Other</p>	
		Hot Dry Rock	Drilling equipment	<p>Self-propelled : Ex 8430.41</p> <p>Other : Ex 8430.49</p>	<p>Heading 84.30: Other moving, grading, levelling, scraping, excavating, tamping, compacting, extracting or boring machinery, for earth, minerals or ores; pile-drivers and pile-extractors; snow-ploughs and snow-blowers.</p> <p>- Other boring or sinking machinery : 8430.41 - - Self-propelled</p>	

Sector	Technology	Technology sub-category	Main components	HS 2007 Code/ Ex-out	HS 2007 description	Observations
					8430.49 - - Other	
			Pipes	Seamless, of iron or non-alloy steel, cold-reduced : Ex 7304.31	Heading 73.04: Tubes, pipes and hollow profiles, seamless, of iron (other than cast iron) or steel.	
				Seamless, of stainless steel, cold-reduced : Ex 7304.41	- Other, of circular cross-section, of iron or non-alloy steel : 7304.31 - - Cold-drawn or cold-rolled (cold-reduced)	
				Seamless, of other alloy steel, cold-reduced : Ex 7304.51	- Other, of circular cross-section, of stainless steel : 7304.41 - - Cold-drawn or cold-rolled (cold-reduced)	
					- Other, of circular cross-section, of other alloy steel : 7304.51 - - Cold-drawn or cold-rolled (cold-reduced)	
				Of brass : Ex 7411.21	Heading 74.11: Copper tubes and pipes.	
				Of cupro-nickel or nickel silver : Ex 7411.22	- Of copper alloys : 7411.21 - - Of copper-zinc base alloys (brass) 7411.22 - - Of copper-nickel base alloys (cupro-nickel) or copper-nickel-zinc base alloys (nickel silver)	
				Of other copper alloys : Ex 7411.29	7411.29 - - Other	
			Heat exchangers	Ex 8419.50	Heading 84.19: Machinery, plant or laboratory equipment, whether or not electrically heated (excluding furnaces,	

Sector	Technology	Technology sub-category	Main components	HS 2007 Code/ Ex-out	HS 2007 description	Observations
					ovens and other equipment of heading 85.14), for the treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilising, pasteurising, steaming, drying, evaporating, vaporising, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, non-electric. 8419.50 – Heat exchange units	
			Steam turbine/generator / Organic Rankine Cycle (ORC) system	Ex 8502.39	Heading 85.02: Electric generating sets and rotary converters. - Other generating sets : 8502.39 - - Other	
	Biomass	Biomass-based Power or CHP * (Large-scale) gasification	Gasifier (large-scale)	Container of a capacity exceeding 300 l, of iron or steel, not fitted with mechanical or thermal equipment : Ex 7309.00	Heading 73.09: Reservoirs, tanks, vats and similar containers for any material (other than compressed or liquefied gas), of iron or steel, of a capacity exceeding 300 l, whether or not lined or heat-insulated, but not fitted with mechanical or thermal equipment.	
				Container of a capacity	Heading 74.19:	

Sector	Technology	Technology sub-category	Main components	HS 2007 Code/ Ex-out	HS 2007 description	Observations
				exceeding 300 l, of copper, not fitted with mechanical or thermal equipment : Ex 7419.99	Other articles of copper. - Other : 7419.99 - - Other	
				Container of a capacity exceeding 300 l, of aluminium, not fitted with mechanical or thermal equipment : Ex 7611.00	Heading 76.11: Aluminium reservoirs, tanks, vats and similar containers, for any material (other than compressed or liquefied gas), of a capacity exceeding 300 l, whether or not lined or heat-insulated, but not fitted with mechanical or thermal equipment.	
			Gas cleaning	Ex 8421.39	Heading 84.21: Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases. - Filtering or purifying machinery and apparatus for gases : 8421.39 - - Other	
			Gas turbine or Combined Cycle	Gas turbine, of a power not exceeding 5,000 kW : 8411.81 Gas turbine, of a power exceeding 5,000 kW : 8411.82	Heading 84.11: Turbo-jets, turbo-propellers and other gas turbines. - Other gas turbines : 8411.81 - - Of a power not exceeding 5,000 kW 8411.82 - - Of a power exceeding 5,000 kW	
			Generator	Of an output not	Heading 85.01:	

Sector	Technology	Technology sub-category	Main components	HS 2007 Code/ Ex-out	HS 2007 description	Observations
				exceeding 75 kVA : 8501.61	Electric motors and generators (excluding generating sets). - AC generators (alternators) : 8501.61 - - Of an output not exceeding 75 kVA 8501.62 - - Of an output exceeding 75 kVA but not exceeding 375 kVA 8501.63 - - Of an output exceeding 375 kVA but not exceeding 750 kVA 8501.64 - - Of an output exceeding 750 kVA	
			Of an output exceeding 75 kVA but not exceeding 375 kVA : 8501.62			
			Of an output exceeding 375 kVA but not exceeding 750 kVA : 8501.63			
			Of an output exceeding 750 kVA : 8501.64			
	2 nd generation bioethanol		(Fermentation) Conversion of lignocellulose	Container of a capacity exceeding 300 l, of iron or steel, not fitted with mechanical or thermal equipment : Ex 7309.00	Heading 73.09: Reservoirs, tanks, vats and similar containers for any material (other than compressed or liquefied gas), of iron or steel, of a capacity exceeding 300 l, whether or not lined or heat-insulated, but not fitted with mechanical or thermal equipment.	The description refers to a process, which is not classifiable in the HS. The HS-codes refer to the apparatus used for such processes (i.e., non-mechanical or thermal containers).
				Container of a capacity exceeding 300 l, of copper, not fitted with mechanical or thermal equipment : Ex 7419.99	Heading 74.19: Other articles of copper. - Other : 7419.99 - - Other	
				Container of a capacity exceeding 300 l, of	Heading 76.11: Aluminium reservoirs, tanks,	

Sector	Technology	Technology sub-category	Main components	HS 2007 Code/ Ex-out	HS 2007 description	Observations
				aluminium, not fitted with mechanical or thermal equipment : Ex 7611.00	vats and similar containers, for any material (other than compressed or liquefied gas), of a capacity exceeding 300 l, whether or not lined or heat-insulated, but not fitted with mechanical or thermal equipment.	
			Distillation	Ex 8419.40	Heading 84.19: Machinery, plant or laboratory equipment, whether or not electrically heated (excluding furnaces, ovens and other equipment of heading 85.14), for the treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilising, pasteurising, steaming, drying, evaporating, vaporising, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, non-electric. 8419.40 – Distilling or rectifying plant	The description refers to a process, which is not classifiable in the HS. The HS-code refers to the apparatus used for such processes (i.e., distilling plant).
			Purification (molecular sieve)	Carbon molecular sieve : Ex 3802.10	Heading 38.02: Activated carbon; activated natural mineral products; animal black, including spent animal black.	The description refers to a process, which is not classifiable in the HS. The HS-codes refer to the constituent material for such processes; this list is, however, not exhaustive.

Sector	Technology	Technology sub-category	Main components	HS 2007 Code/ Ex-out	HS 2007 description	Observations
					3802.10 - Activated carbon	
				Chemicals not elsewhere specified or included, e.g., aluminium silicate : Ex 3824.90	Heading 38.24: Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included. 3824.90 - Other	
		2 nd generation biodiesel	Gasifier (large-scale)	Container of a capacity exceeding 300 l, of iron or steel, not fitted with mechanical or thermal equipment : Ex 7309.00	Heading 73.09: Reservoirs, tanks, vats and similar containers for any material (other than compressed or liquefied gas), of iron or steel, of a capacity exceeding 300 l, whether or not lined or heat-insulated, but not fitted with mechanical or thermal equipment.	
				Container of a capacity exceeding 300 l, of copper, not fitted with mechanical or thermal equipment : Ex 7419.99	Heading 74.19: Other articles of copper. - Other : 7419.99 - - Other	
				Container of a capacity exceeding 300 l, of aluminium, not fitted with mechanical or thermal equipment :	Heading 76.11: Aluminium reservoirs, tanks, vats and similar containers, for any material (other than compressed or liquefied gas),	

Sector	Technology	Technology sub-category	Main components	HS 2007 Code/ Ex-out	HS 2007 description	Observations
				Ex 7611.00	of a capacity exceeding 300 l, whether or not lined or heat-insulated, but not fitted with mechanical or thermal equipment.	
			Gas cleaning	Ex 8421.39	Heading 84.21: Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases. - Filtering or purifying machinery and apparatus for gases : 8421.39 - - Other	
			Syngas reactor (large-scale)	Ex 8405.10	Heading 84.05: Producer gas or water gas generators, with or without their purifiers; acetylene gas generators and similar water process gas generators, with or without their purifiers. 8405.10 - Producer gas or water gas generators, with or without their purifiers; acetylene gas generators and similar water process gas generators, with or without their purifiers	
			Liquids purification	Ex 8421.29	Heading 84.21: Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases. - Filtering or purifying machinery and apparatus for	The description refers to a process, which is not classifiable in the HS. The HS-code refers to the apparatus used for such processes (i.e., purifying machinery or apparatus for liquids).

Sector	Technology	Technology sub- category	Main components	HS 2007 Code/ Ex-out	HS 2007 description	Observations
					liquids: 8421.29 - - Other	