

New Zealand - United Kingdom FTA Environmental Goods List: HS2017 to HS2012 Conversion Note

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Introduction

Free Trade Agreement between New Zealand and the United Kingdom of Great Britain and Northern Ireland (NZ – UK FTA) concluded in February 2022 and enforced from May 2023 in its Article 22.7 states the intention of the parties to eliminate customs duties on bilateral trade in environmental goods (GOV.UK). For the purposes of this agreement, environmental goods are defined as “goods which can positively contribute to the clean growth and sustainable development objectives of the Parties, including climate change mitigation and adaptation, and wider environmental goals”.

Annex 22A to the agreement, provides a list of 293 HS2017 six-digit subheadings associated with 324 product categories that can, directly or indirectly, provide environmental benefits. In addition to HS six-digit codes and HS subheading descriptions, Annex 22A includes additional product specifications (where applicable) and remarks on the environmental benefit associated with each product included.

To ensure comparability of analysis implemented with the help of Trade Intelligence and Negotiation Advisor (TINA)², conversion of six-digit subheadings listed Annex 22A from HS2017 to HS2012 version was undertaken. The purpose of this technical note is to describe the conversion process and to substantiate individual conversion decisions made in this process.

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² Available at: <https://tina.trade/>

Conversion of Annex 22A environmental goods subheadings from HS2017 to HS2012

As the initial step, HS2017-to-HS2012 correlation table published by the Statistics Division of the United Nations Department of Economic and Social Affairs (UNDESA) was used to relate HS2017 six-digit subheadings listed in Annex 22A to the corresponding HS2012 six-digit subheadings (UN DESA, Statistics Division). As the result of this, 293 HS2017 subheadings were matched to 401 HS2012 subheadings.

As opposed to the conversion table that assigns one HS2017 subheading to one HS2012 subheading based on decision rules outlined in Correlation and conversion tables used in UN Comtrade note (UN DESA, Statistics Division, 2017), correlation table covers all relations that exist between the subheading of the two HS versions that can be of 4 types:

- a) 1:1, where a given HS2017 subheading is correlated with only one HS2012 subheading.
- b) n:1, where a given HS2017 subheading came about as the result of splitting one HS2012 subheading into several HS2012 subheadings
- c) n:1, where a given HS2017 subheading came about as the result of merging several HS2012 subheadings into one HS2012 subheading, and
- d) n:n, where a given HS2017 subheading came about as the result of splitting and merging (re-arranging) of several HS2012 subheadings.

As is evident from the above, subheadings in new versions of the HS may result from splitting, merging, or re-arranging of previously existing subheadings, as well as from creating new subheadings for the types of goods and technologies that did not exist before, or for the types of goods movement of which is deemed to be important to track specifically. With this in mind, it is useful to identify all HS2012 subheadings that are correlated with HS2017 subheadings listed for environmental goods in Annex 22A and then to check descriptions of HS2017 subheadings, as well as product specifications stated in Annex 22A, against the descriptions of HS2012 subheadings to isolate those

6-digit codes that would constitute the closest matches to the environmental goods listed in NZ – UK FTA.

Thus, as the next step, a thorough review of the merging results was conducted to both understand the relationship between the headings of the two HS versions and to determine whether the correct HS2012 subheadings have been identified and whether the product coverage within the identified subheadings was full or partial. HS subheadings descriptions were sourced from the datasets available from Classifications on economic statistics maintained by UN DESA's Statistics Division.³

The following assumptions were made in this process.

In some cases, the description or the specification of a product listed in Annex 22A seems to be narrower in scope than what is stated in HS2017 description of the corresponding subheading. However, paragraph 2(a) of Article 22.7 states that "Each Party shall eliminate customs duties on originating goods of the other Party upon entry into force of this Agreement on HS six-digit subheadings containing the environmental goods listed in Annex 22A (Environmental Goods List), in accordance with Chapter 2 (National Treatment and Market Access for Goods) and Annex 2A (Schedule of Tariff Commitments for Goods)." Therefore, the stated intention of the parties is eliminating tariffs for the full scope of goods that fall under the indicated subheadings of HS2017. Thus, assumption is made that all HS subheadings listed in Annex 22A are fully covered by this provision.

Based on the above, where there is a 1:1 relationship between HS2017 and HS2012 subheadings, the product coverage for the corresponding HS2012 code is assumed to be full, unless the subheading description provides a clear indication that the product coverage has been significantly revised.

For other types of relationships, the coverage scope was determined based on the

³ Available at: <https://unstats.un.org/unsd/classifications/Econ>

detailed review of the HS subheadings descriptions, and where necessary, product descriptions and specifications provided in Annex 22A.

Below is the final table outlining the HS2012 6-digit subheadings that were determined to correspond with the goods listed in Annex 22A, with indication of partial (EX) coverage, where applicable.

Error! Reference source not found. below contains a detailed table reflecting the initial results of merging Annex 22A HS2017 subheadings to HS2012 subheadings using correlation table, and then the final set of HS2012 subheadings identified after the manual review of the product descriptions to determine the accuracy of the matching and the extent of product coverage (full or partial).

As the result of this exercise, 291 HS2012 codes were identified as corresponding to 293 HS2017 codes associated with environmental goods, of which 24 HS2012 subheadings are partial coverage.

Inclusion of Annex 19 List A environmental goods from New Zealand – European Union FTA

For analytical purposes, the list of HS subheadings from Annex 22A of NZ-UK FTA was supplemented with the HS subheadings from Annex 19 List A of New Zealand – European Union FTA (NZ-EU FTA) that was signed on 9 July 2023 and entered into force on 1 May 2024 (MFAT NZ).

NZ-EU FTA states the intention of the involved parties “to eliminate customs duties on environmental goods originating in the other Party.” The treaty defines environmental goods as the goods contributing to “achieving environmental and climate goals by preventing, limiting, minimizing or remediating environmental damage to water, air and soil and by contributing to the dissemination of technologies that serve to mitigate climate change”. Despite this broad definition, List A of Annex 19 covers a narrower, illustrative and non-exhaustive, set of goods that “contribute to mitigating climate

change by efficient use of energy and dissemination of renewable technologies”.

Thus, NZ-EU FTA’s Annex 19A includes goods that are associated with 48 HS2017 subheadings. 38 of these subheadings are covered by NZ-UK FTA’s Annex 22A, while 10 subheadings are unique to NZ-EU FTA.

These additional HS2017 subheadings were converted to HS2012 following the same method and appended to Tables 1 below and Table 2 in Annex 1. In both tables, goods that are present in both lists have been marked with single asterisks in Product ID column, while goods that are only present in NZ-EU FTA list are marked with double asterisks.

Table 1. Final HS2017-to-HS2012 correspondence for environmental goods listed in Annex 22A of NZ-UK FTA and Annex 19 List A of NZ-EU FTA

Product ID	HS2017	HS2012	Coverage
1	60290	60290	
2	261800	261800	
3*	280461	280461	
4	280469	280469	
5	380210	380210	
6*	381800	381800	
7	391732	391732	
8	391733	391733	
9	391739	391739	
10*	391990	391990	
11	392030	392030	
12*	392062	392062	
13*	392091	392091	
14*	392091	392091	
15*	392190	392190	
16	392290	392290	
17	392290	392290	
18	392290	392290	
19	392330	392330	
20	400300	400300	
21	400400	400400	
22	401150	401150	
23	401320	401320	

Product ID	HS2017	HS2012	Coverage
24	440711	440710	
25	440712	440710	
26	440719	440710	
27	440810	440810	
28	440910	440910	
29	440921	440921	
30	441860	441860	
31	441873	441871	EX
31	441873	441872	
31	441873	441879	
32	441875	441872	
33	441879	441879	
34	441891	441890	
35	441899	441890	
36*	450410	450410	
37*	450490	450490	
38	460121	460121	
39	460122	460122	
40	460129	460129	
41	470620	470620	
42	470710	470710	
43	470720	470720	
44	470730	470730	

Product ID	HS2017	HS2012	Coverage
45	470790	470790	
46	480519	480519	
47	480524	480524	
48	480525	480525	
49	480592	480592	
50	480593	480593	
51	481092	481092	
52	500500	500500	
53	500600	500600	
54	510111	510111	
55	510121	510121	
56	530110	530110	
57	530129	530129	
58	530310	530310	
59	530500	530500	
60	531010	531010	
61	560394	560394	
62	560790	560790	
63	591190	591190	
64	630510	630510	
65	631010	631010	
66	631090	631090	
67*	680610	680610	
68*	680690	680690	
69*	680800	680800	
70	681510	681510	
71	691010	691010	
72	691010	691010	
73	691010	691010	
74*	700510	700510	
75*	700719	700719	
76	700800	700800	
77*	700991	700991	
78	701931	701931	
79	701939	701939	
80	701990	701990	
81	720410	720410	
82	720421	720421	
83	720429	720429	
84	720430	720430	
85	720441	720441	

Product ID	HS2017	HS2012	Coverage
86	720449	720449	
87	720450	720450	
88	722511	722511	
89	722611	722611	
90	730210	730210	
91	730230	730230	
92	730240	730240	
93	730290	730290	
94*	730820	730820	
95*	730890	730890	
96	730900	730900	
97	731511	731511	
98	732020	732020	
99	732490	732490	
100	732490	732490	
101	732490	732490	
102	732490	732490	
103*	750890	750890	
104	761520	761520	
105	761520	761520	
106	840211	840211	
107	840211	840211	
108	840211	840211	
109	840212	840212	
110	840212	840212	
111	840219	840219	
112	840219	840219	
113	840410	840410	
114	840420	840420	
115	840490	840490	
116	840510	840510	
117	840681	840681	
118	840682	840682	
119	840690	840690	
120*	841011	841011	
121*	841012	841012	
122*	841013	841013	
123*	841090	841090	
124	841181	841181	
125	841182	841182	
126*	841290	841290	

Product ID	HS2017	HS2012	Coverage
127	841480	841480	
128*	841861	841861	
129*	841861	841861	
130*	841861	841861	
131*	841861	841861	
132	841899	841899	
133*	841919	841919	
134	841939	841939	
135	841940	841940	
136	841940	841940	
137	841960	841960	
138	841989	841989	
139	841989	841989	
140	841989	841989	
141	841989	841989	
142	841989	841989	
143	841989	841989	
144	841989	841989	
145	841990	841990	
146	842119	842119	
147	842119	842119	
148	842121	842121	
149	842139	842139	
150	842191	842191	
151	842199	842199	
152	842220	842220	
153	842290	842290	
154	846239	846239	
155	846291	846291	
156	847410	847410	
157	847420	847420	
158	847439	847439	
159	847490	847490	
160	847751	847751	
161	847989	847989	
162	847990	847990	
163	848110	848110	
164*	848210	848210	
165*	848230	848230	
166	848330	848330	
167*	848340	848340	

Product ID	HS2017	HS2012	Coverage
168*	848360	848360	
169*	848610	848610	
170*	848620	848620	
171*	848690	848690	
172	850131	850131	
173	850132	850132	
174	850133	850133	
175	850151	850151	
176	850152	850152	
177	850161	850161	
178	850162	850162	
179	850163	850163	
180	850164	850164	
181*	850231	850231	
182*	850239	850239	
183	850300	850300	
184	850421	850421	
185	850422	850422	
186	850423	850423	
187	850431	850431	
188	850432	850432	
189	850433	850433	
190	850433	850433	
191	850434	850434	
192	850434	850434	
193	850440	850440	
194	850490	850490	
195	850590	850590	
196	850680	850680	
197	850720	850720	
198	850730	850730	
199	850740	850740	
200	850750	850750	
201	850760	850760	
202	850780	850780	
203	850790	850790	
204	851210	851210	
205	851220	851220	
206	851310	851310	
207	851629	851629	
208	851762	851762	

Product ID	HS2017	HS2012	Coverage
209	852691	852691	
210	852852	852851	
210	852852	852859	
211	852859	852859	
212	852910	852910	
213	852990	852990	
214	853010	853010	
215	853080	853080	
216	853090	853090	
217	853120	853120	
218	853120	853120	
219	853120	853120	
220	853190	853190	
221	853650	853650	
222	853931	853931	
223	853949	853949	
224	853950	853949	EX
225	854110	854110	
226	854121	854121	
227	854129	854129	
228	854130	854130	
229*	854140	854140	
230	854190	854190	
231	854231	NA	
231	854231	854231	
232	854330	854330	
233	854390	854390	
234	854460	854460	
235	860110	860110	
236	860120	860120	
237	860310	860310	
238	860500	860500	
239	860630	860630	
240	860691	860691	
241	860692	860692	
242	860699	860699	
243	860711	860711	
244	860712	860712	
245	860719	860719	
246	860721	860721	
247	860729	860729	

Product ID	HS2017	HS2012	Coverage
248	860730	860730	
249	860791	860791	
250	860799	860799	
251	860800	860800	
252	870230	870290	EX
253	870240	870290	EX
254	870340	870321	EX
254	870340	870322	EX
254	870340	870323	EX
254	870340	870324	EX
254	870340	870390	EX
255	870350	870331	EX
255	870350	870332	EX
255	870350	870333	EX
255	870350	870390	EX
256	870360	870321	EX
256	870360	870322	EX
256	870360	870323	EX
256	870360	870324	EX
256	870360	870390	EX
257	870370	870331	EX
257	870370	870332	EX
257	870370	870333	EX
257	870370	870390	EX
258	870380	870390	EX
259	871160	871190	EX
260	871200	871200	
261	871491	871491	
262	871492	871492	
263	871493	871493	
264	871494	871494	
265	871495	871495	
266	871496	871496	
267	871499	871499	
268	890710	890710	
269	890790	890790	
270	890790	890790	
271	890790	890790	
272*	900190	900190	
273*	900290	900290	
274	901210	901210	

Product ID	HS2017	HS2012	Coverage
275	901290	901290	
276	901320	901320	
277*	901380	901380	
278*	901390	901390	
279	901530	901530	
280	901540	901540	
281	901580	901580	
282	901590	901590	
283	902519	902519	
284	902590	902590	
285	902610	902610	
286	902620	902620	
287	902680	902680	
288	902690	902690	
289	902710	902710	
290	902720	902720	
291	902730	902730	
292	902750	902750	
293	902780	902780	
294	902790	902790	
295	902810	902810	
296	902820	902820	
297	902830	902830	
298	902890	902890	
299	903010	903010	
300	903020	903020	
301	903031	903031	
302	903032	903032	
303	903033	903033	
304	903039	903039	

Product ID	HS2017	HS2012	Coverage
305	903082	903082	
306	903084	903084	
307	903089	903089	
308	903090	903090	
309	903110	903110	
310	903120	903120	
311	903149	903149	
312	903180	903180	
313	903190	903190	
314	903210	903210	
315	903220	903220	
316	903281	903281	
317	903289	903289	
318	903290	903290	
319	940510	940510	
320	940510	940510	
321	940520	940520	
322	940540	940540	
323	940560	940560	
324	961700	961700	
325**	350790	350790	
326**	680620	680620	
327**	282300	282300	
328**	292111	292111	
329**	292529	292529	
330**	293339	293339	
331**	392010	392010	
332**	853710	841280	
333**	841280	841280	
334**	848310	848310	

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Annex 1

The table below contains detailed data on HS2017-to-HS2012 conversion process for HS2017 subheadings listed for the environmental goods in Annex 22A of NZ-UK FTA and in Annex 19 List A of NZ-EU FTA. Below is the description of the data included:

id	Product ID assigned to environmental goods categories extracted from New Zealand - EU FTA's Annex 22A
hs2017	HS2017 subheading from New Zealand - EU FTA's Annex 22A
ex	Coverage level from HS2017-to-HS2012 correlation table ("ex" for partial coverage)
hs2012	HS2012 subheading from HS2017-to-HS2012 correlation table
rel	Relation between HS2017 and HS2012 subheadings from HS2017-to-HS2012 correlation table
eg_description	Product description from New Zealand - EU FTA's Annex 22A, including HS subheading description, product specification and remarks on environmental benefit of the product
hs2017_description	HS2017 subheading description
hs2012_description	HS2012 subheading description
same code	Does HS2017 subheading correlate with the same HS2012 subheading (TRUE/FALSE; based on HS2017-to-HS2012 correlation table)
correct match	Does the correlating HS2012 subheading constitute a correct product match (yes/no; based on HS2017-to-HS2012 correlation table; HS subheading descriptions, and Annex 22A product descriptions)
coverage	Level of HS2012 subheading coverage (X=full coverage; EX=partial coverage) and additional decisions substantiating comments
HS2012	Final HS2012 subheading adopted based on HS2017-to-HS2012 correlation table or suggested based on product and subheading descriptions

Goods that are listed in both treaties have been marked with single asterisks in **id** column, while goods that are only listed in NZ-EU FTA are marked with double asterisks.

Table 2. HS2017-to-HS2012 conversion for environmental goods listed in Annex 22A of NZ-UK FTA and Annex 19 List A of NZ-EU FTA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
1	60290		60290	1:1	Live plants, incl. their roots and mushroom spawn (excl. bulbs, tubers, tuberous roots, corms, crowns and rhizomes, incl. chicory plants and roots, unrooted cuttings and slips, fruit and nut trees, rhododendrons, azaleas and roses); ADD: ; ADD: Promote regrowth and biodiversity of plant life for local agriculture.	060290 - Plants, live; n.e.c. in heading no. 0602	060290 - -Other	TRUE	yes	X; based on description	60290
2	261800		261800	1:1	Granulated slag "slag sand" from the manufacture of iron or steel; ADD: ; ADD: Waste material that can be further utilized or recycled.	261800 - Slag, granulated (slag sand); from the manufacture of iron or steel	261800 - Granulated slag (slag sand) from the manufacture of iron or steel.	TRUE	yes	X; based on description	261800
3*	280461		280461	1:1	Silicon; containing by weight not less than 99.99% of silicon; ADD: ; ADD: Polysilicon is a key raw material for the production of photovoltaic panels.	280461 - Silicon; containing by weight not less than 99.99% of silicon	280461 - -- Containing by weight not less than 99.99 % of silicon	TRUE	yes	X; based on description	280461
4	280469		280469	1:1	Silicon; containing by weight less than 99.99% of silicon; ADD: ; ADD: Polysilicon is a key raw material for the production of photovoltaic panels.	280469 - Silicon; containing by weight less than 99.99% of silicon	280469 - -- Other	TRUE	yes	X; based on description	280469

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
5	380210		380210	1:1	Carbon; activated; ADD: ; ADD: Activated carbon is used in gas purification, water purification, medicine, sewage treatment, air filters in gas masks and respirators, filters in compressed air and many other applications. Activated carbon is usually derived from charcoal, produced from carbonaceous source materials such as nutshells, coconut husk, peat, wood, coir, lignite, coal, and petroleum pitch.	380210 - Carbon; activated	380210 - -Activated carbon	TRUE	yes	X; based on description	380210
6*	381800		381800	1:1	Chemical elements; doped for use in electronics, in the form of discs, wafers or similar forms; chemical compounds doped for use in electronics; ADD: Silicon semiconductor wafers for photovoltaic cells; ADD: Silicon semiconductor wafers are an important component of solar photovoltaic cells.	381800 - Chemical elements; doped for use in electronics, in the form of discs, wafers or similar forms; chemical compounds doped for use in electronics	381800 - Chemical elements doped for use in electronics, in the form of discs, wafers or similar forms; chemical compounds doped for use in electronics.	TRUE	yes	X; based on description	381800

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
7	391732		391732	1:1	Flexible tubes, pipes and hoses of plastics, not reinforced or otherwise combined with other materials, without fittings; ADD: ; ADD: Of a kind used in agricultural drip irrigation. Delivers water through the holes or water dropper of plastic pipe with 16mm in diameter to the roots of crop for partial irrigation, to achieve even-spreading and conservation of water.	391732 - Plastics; tubes, pipes and hoses thereof, other than those of item no. 3917.31, not reinforced or otherwise combined with other materials, without fittings	391732 - -- Other, not reinforced or otherwise combined with other materials, without fittings	TRUE	yes	X; based on description	391732
8	391733		391733	1:1	Flexible tubes, pipes and hoses of plastics, not reinforced or otherwise combined with other materials, with fittings, seals or connectors; ADD: ; ADD: Of a kind used in agricultural drip irrigation. Delivers water through the holes or water dropper of plastic pipe with 16mm in diameter to the roots of crop for partial irrigation, to achieve even-spreading and conservation of water.	391733 - Plastics; tubes, pipes and hoses thereof, other than those of item no. 3917.31, not reinforced or otherwise combined with other materials, with fittings	391733 - -- Other, not reinforced or otherwise combined with other materials, with fittings	TRUE	yes	X; based on description	391733

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
9	391739		391739	1:1	Flexible tubes, pipes and hoses, of plastics, reinforced or otherwise combined with other materials (excl. those with a burst pressure of ≥ 27,6 MPa); ADD: ; ADD: Of a kind used in agricultural drip irrigation. Delivers water through the holes or water dropper of plastic pipe with 16mm in diameter to the roots of crop for partial irrigation, to achieve even-spreading and conservation of water.	391739 - Plastics; tubes, pipes and hoses thereof, n.e.c. in item no. 3917.30	391739 - -- Other	TRUE	yes	X; based on description	391739
10*	391990		391990	1:1	Self-adhesive plates, sheets, film, foil, tape, strip and other flat shapes, of plastics, whether or not in rolls > 20 cm wide (excl. floor, wall and ceiling coverings of heading 3918); ADD: ; ADD: Solar films which reduce solar heat gain through windows and improve a window's insulating performance, thus reducing GHG emissions by reducing heating and cooling demands of buildings. Solar mirror films provide a highly	391990 - Plastics; plates, sheets, film, foil, tape, strip, other flat shapes thereof, self-adhesive, other than in rolls of a width not exceeding 20cm	391990 - -Other 3919 - Self-adhesive plates, sheets, film, foil, tape, strip and other flat shapes, of plastics, whether or not in rolls.	TRUE	yes	X; based on description	391990

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					reflective, light and durable alternate to glass mirrors in concentrating solar power (CSP) systems.						
11	392030		392030	1:1	Plates, sheets, foil, film and strip, of non-cellular polymers of styrene, not reinforced, laminated, supported or similarly combined with other materials, without backing, unworked or merely surface-worked or merely cut into squares or rectangles (excl. self- adhesive products and floor, wall and ceiling coverings of heading 3918); ADD: ; ADD: Of a kind used in heat and energy management.	392030 - Plastics; of polymers of styrene, plates, sheets, film, foil and strip (not self-adhesive), non-cellular and not reinforced, laminated, supported or similarly combined with other materials	392030 - -Of polymers of styrene	TRUE	yes	X; based on description	392030

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
12*	392062		392062	1:1	392062 (SC): Plates, sheets, film, foil and strip, of non-cellular poly"ethylene terephthalate", not reinforced, laminated, supported or similarly combined with other materials , without backing, unworked or merely surface-worked or merely cut into squares or rectangles (excl. those of poly"methyl methacrylate", self-adhesive products and floor, wall and ceiling coverings of heading 3918); ADD: ; ADD: Solar films which reduce solar heat gain through windows and improve a window's insulating performance, thus reducing GHG emissions by reducing heating and cooling demands of buildings. Solar mirror films provide a highly reflective, light and durable alternate to glass mirrors in concentrating solar power (CSP) systems.	392062 - Plastics; plates, sheets, film, foil and strip (not self-adhesive), of poly(ethylene terephthalate), non-cellular and not reinforced, laminated, supported or similarly combined with other materials	392062 - -- Of poly(ethylene terephthalate)	TRUE	yes	X; based on description	392062

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
13*	392091		392091	1:1	Plastics; plates, sheets, film, foil and strip (not self-adhesive), of poly(vinyl butyral) , non- cellular and not reinforced, laminated, supported or similarly combined with other materials; ADD: Solar control window film; ADD: Advanced interlayer window films containing either dispersed nanoparticles or an integral film layer that reject solar energy. These films reduce air conditioning usage in buildings, thus increasing energy efficiency.	392091 - Plastics; plates, sheets, film, foil and strip (not self-adhesive), of poly(vinyl butyral), non-cellular and not reinforced, laminated, supported or similarly combined with other materials	392091 - -- Of poly(vinyl butyral)	TRUE	yes	X; based on description	392091
14*	392091		392091	1:1	Plastics; plates, sheets, film, foil and strip (not self-adhesive), of poly(vinyl butyral) , non- cellular and not reinforced, laminated, supported or similarly combined with other materials; ADD: Films and encapsulant sheets for photovoltaic cells, modules and panels; ADD: Photovoltaic cell and module encapsulants have a number of functions that support solar energy systems,	392091 - Plastics; plates, sheets, film, foil and strip (not self-adhesive), of poly(vinyl butyral), non-cellular and not reinforced, laminated, supported or similarly combined with other materials	392091 - -- Of poly(vinyl butyral)	TRUE	yes	X; based on description	392091

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					such as protecting solar cells from UV, moisture and heat.						
15*	392190		392190	1:1	Plates, sheets, film, foil and strip, of plastics, reinforced, laminated, supported or similarly combined with other materials, unworked or merely surface-worked or merely cut into squares or rectangles (excl. of cellular plastic; self- adhesive products, floor, wall and ceiling coverings of heading 3918); ADD: ; ADD: Solar films which reduce solar heat gain through windows and improve a window's insulating performance, thus reducing GHG emissions by reducing heating and cooling demands of buildings. Solar mirror films provide a highly reflective, light and durable alternate to glass mirrors in	392190 - Plastics; plates, sheets, film, foil and strip, other than cellular	392190 - -Other	TRUE	yes	X; based on description	392190

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					concentrating solar power (CSP) systems.						
16	392290		392290	1:1	<p>Plastics; bidets, lavatory pans, flushing cisterns and similar sanitary ware</p> <p>n.e.c. in heading no. 3922; ADD: Composting toilets; ADD: Composting toilets minimise water use and provide self-contained sewage treatment on site, with no need for sewers and treatment plants. They also do not pollute ground or surface water or soil (unlike septic tanks or pit latrines) and produce safe, useful compost.</p>	392290 - Plastics; bidets, lavatory pans, flushing cisterns and similar sanitary ware n.e.c. in heading no. 3922	392290 - -Other	TRUE	yes	X; based on description	392290

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
17	392290		392290	1:1	Plastics; bidets, lavatory pans, flushing cisterns and similar sanitary ware n.e.c. in heading no. 3923; ADD: Dual flushing cisterns; ADD: Waterless urinals and dual flushing cisterns increase water efficiency and therefore reduces water use.	392290 - Plastics; bidets, lavatory pans, flushing cisterns and similar sanitary ware n.e.c. in heading no. 3922	392290 - -Other	TRUE	yes	X; based on description	392290
18	392290		392290	1:1	Plastics; bidets, lavatory pans, flushing cisterns and similar sanitary ware n.e.c. in heading no. 3924; ADD: Waterless urinals; ADD: Waterless urinals minimise water and energy use, resulting in significantly less carbon emissions compared to other urinal systems.	392290 - Plastics; bidets, lavatory pans, flushing cisterns and similar sanitary ware n.e.c. in heading no. 3922	392290 - -Other	TRUE	yes	X; based on description	392290
19	392330		392330	1:1	Plastics; carboys, bottles, flasks and similar articles, for the conveyance or packing of goods; ADD: Plastic, removable and recyclable cartridges, of a kind used in waterless urinals; ADD: Waterless urinals minimise water and energy use, resulting in significantly less	392330 - Plastics; carboys, bottles, flasks and similar articles, for the conveyance or packing of goods	392330 - -Carboys, bottles, flasks and similar articles	TRUE	yes	X; based on description	392330

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					carbon emissions compared to other urinal systems.						
20	400300		400300	1:1	Reclaimed rubber in primary forms or in plates, sheets or strip; ADD: ; ADD: Waste material that can be further utilised or recycled.	400300 - Rubber; reclaimed rubber, in primary forms or in plates, sheets or strip	400300 - Reclaimed rubber in primary forms or in plates, sheets or strip.	TRUE	yes	X; based on description	400300
21	400400		400400	1:1	Waste, parings and scrap of soft rubber and powders and granules obtained therefrom; ADD: ; ADD: Waste material that can be further utilised or recycled.	400400 - Rubber; waste, parings and scrap of rubber (other than hard rubber) and powders and granules obtained therefrom	400400 - Waste, parings and scrap of rubber (other than hard rubber) and powders and granules obtained therefrom.	TRUE	yes	X; based on description	400400
22	401150		401150	1:1	Rubber; new pneumatic tyres, of a kind used on bicycles; ADD: ; ADD: Bicycles and their parts provide a environmentally friendly, low-carbon mode of transportation, which can contribute to lowering GHG emissions in the transport sector as well as reducing air pollution.	401150 - Rubber; new pneumatic tyres, of a kind used on bicycles	401150 - -Of a kind used on bicycles	TRUE	yes	X; based on description	401150

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
23	401320		401320	1:1	Rubber; inner tubes, of a kind used on bicycles; ADD: ; ADD: Bicycles and their parts provide a environmentally friendly, low-carbon mode of transportation, which can contribute to lowering GHG emissions in the transport sector as well as reducing air pollution.	401320 - Rubber; inner tubes, of a kind used on bicycles	401320 - -Of a kind used on bicycles	TRUE	yes	X; based on description	401320
24	440711	ex	440710	n:1	Wood; coniferous species, of pine (Pinus spp.), sawn or chipped lengthwise, sliced or peeled, whether or not planed, sanded or finger- jointed, of a thickness exceeding 6mm; ADD: ; ADD: Sustainably sourced wood- based construction materials provide an environmentally preferable alternative to more carbon-intensive construction materials due to the natural, renewable and biodegradable nature of wood. Wood is a natural store of carbon dioxide gas and can play an important role in reducing GHG	440711 - Wood; coniferous species, of pine (Pinus spp.), sawn or chipped lengthwise, sliced or peeled, whether or not planed, sanded or finger-jointed, of a thickness exceeding 6mm	440710 - - Coniferous 4407 - Wood sawn or chipped lengthwise, sliced or peeled, whether or not planed, sanded or end-jointed, of a thickness exceeding 6 mm.	FALSE	yes	X; based on description and the fact that HS2012 subheading was split into several HS2017 codes, all of which are listed in Annex 22A	440710

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					emissions in the construction sector.						
25	440712	ex	440710	n:1	Wood; coniferous species, of fir (Abies spp.) and spruce (Picea spp.), sawn or chipped lengthwise, sliced or peeled, whether or not planed, sanded or finger-jointed, of a thickness exceeding 6mm; ADD: ; ADD: Sustainably sourced wood- based construction materials provide an environmentally preferable alternative to more carbon-intensive construction materials due to the natural, renewable and biodegradable nature of wood. Wood is a natural store of carbon dioxide gas and can play an important role in reducing GHG	440712 - Wood; coniferous species, of fir (Abies spp.) and spruce (Picea spp.), sawn or chipped lengthwise, sliced or peeled, whether or not planed, sanded or finger-jointed, of a thickness exceeding 6mm	440710 - - Coniferous 4407 - Wood sawn or chipped lengthwise, sliced or peeled, whether or not planed, sanded or end-jointed, of a thickness exceeding 6 mm.	FALSE	yes	X; based on description and the fact that HS2012 subheading was split into several HS2017 codes, all of which are listed in Annex 22A	440710

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					emissions in the construction sector.						
26	440719	ex	440710	n:1	Wood; coniferous species, other than of pine (Pinus spp.) or fir (Abies spp.) or spruce (Picea spp.), sawn or chipped lengthwise, sliced or peeled, whether or not planed, sanded or finger-jointed, of a thickness exceeding 6mm; ADD: ; ADD: Sustainably sourced wood- based construction materials provide an environmentally preferable alternative to more carbon-intensive construction materials due to the natural, renewable and biodegradable nature of wood. Wood is a natural store of carbon dioxide gas and can	440719 - Wood; coniferous species, other than of pine (Pinus spp.) or fir (Abies spp.) or spruce (Picea spp.), sawn or chipped lengthwise, sliced or peeled, whether or not planed, sanded or finger-jointed, of a thickness exceeding 6mm	440710 - - Coniferous 4407 - Wood sawn or chipped lengthwise, sliced or peeled, whether or not planed, sanded or end-jointed, of a thickness exceeding 6 mm.	FALSE	yes	X; based on description and the fact that HS2012 subheading was split into several HS2017 codes, all of which are listed in Annex 22A	440710

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					play an important role in reducing GHG emissions in the construction sector.						
27	440810		440810	1:1	Wood; coniferous, sheets for veneering (including those obtained by slicing laminated wood), for plywood or similar laminated wood and other wood, sawn lengthwise, sliced or peeled, planed or not, sanded, spliced or end- jointed, not over 6 mm thick; ADD: ; ADD: Sustainably sourced wood- based construction materials provide an environmentally preferable alternative to more carbon-intensive construction materials due to the natural, renewable and biodegradable nature of wood. Wood is a	440810 - Wood; coniferous, sheets for veneering (including those obtained by slicing laminated wood), for plywood or similar laminated wood and other wood, sawn lengthwise, sliced or peeled, planed or not, sanded, spliced or end-jointed, not over 6 mm thick	440810 - Wood; coniferous, sheets for veneering (including those obtained by slicing laminated wood), for plywood or similar laminated wood and other wood, sawn lengthwise, sliced or peeled, planed or not, sanded, spliced or end-jointed, not over 6 mm thick	TRUE	yes	X; based on description	440810

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					natural store of carbon dioxide gas and can play an important role in reducing GHG emissions in the construction sector.						
28	440910		440910	1:1	Wood; coniferous (including unassembled strips and friezes for parquet flooring), continuously shaped along any edges, ends or faces, whether or not planed, sanded or end- jointed; ADD: ; ADD: Sustainably sourced wood is a natural, renewable and biodegradable material in contrast to manufactured or elaborately transformed materials. Wood is a natural store of carbon dioxide gas and has a wide range of uses and applications.	440910 - Wood; coniferous (including unassembled strips and friezes for parquet flooring), continuously shaped along any edges, ends or faces, whether or not planed, sanded or end-jointed	440910 - Wood; coniferous (including unassembled strips and friezes for parquet flooring), continuously shaped along any edges, ends or faces, whether or not planed, sanded or end-jointed	TRUE	yes	X; based on description	440910

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
29	440921		440921	1:1	Wood; bamboo (including unassembled strips and friezes for parquet flooring), continuously shaped along any edges, ends or faces, whether or not planed, sanded or end- jointed; ADD: ; ADD: Sustainably sourced wood is a natural, renewable and biodegradable material in contrast to manufactured or elaborately transformed materials. Wood is a natural store of carbon dioxide gas and has a wide range of uses and applications.	440921 - Wood; bamboo (including unassembled strips and friezes for parquet flooring), continuously shaped along any edges, ends or faces, whether or not planed, sanded or end-jointed	440921 - Wood; bamboo (including unassembled strips and friezes for parquet flooring), continuously shaped along any edges, ends or faces, whether or not planed, sanded or end-jointed	TRUE	yes	X; based on description	440921
30	441860		441860	1:1	Wood; posts and beams; ADD: ; ADD: Sustainably sourced wood- based construction materials provide an environmentally preferable alternative to more carbon-intensive construction materials due to the natural, renewable and biodegradable nature of wood. Wood is a natural store of carbon dioxide gas and can play an important role in reducing GHG	441860 - Wood; posts and beams 4418 - Builders' joinery and carpentry of wood, including cellular wood panels, assembled flooring panels, shingles and shakes	441860 - -Posts and beams 4418 - Builders' joinery and carpentry of wood, including cellular wood panels, assembled flooring panels, shingles and shakes.	TRUE	yes	X; based on description	441860

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					emissions in the construction sector.						
31	441873	ex	441871	n:n	Wood; assembled flooring panels, of bamboo or with at least the top layer (wear layer) of bamboo; ADD: ; ADD: Sustainably sourced bamboo products provide an environmentally preferable alternative due to the natural, renewable and biodegradable nature of bamboo compared to other materials.	441873 - Wood; assembled flooring panels, of bamboo or with at least the top layer (wear layer) of bamboo	441871 - Wood; assembled flooring panels, for mosaic floors	FALSE	yes	EX; based on description and on the fact that HS2012 subheading was split into several HS2017 subheadings not all of which are covered in Annex22A	441871
31	441873	ex	441872	n:n	Wood; assembled flooring panels, of bamboo or with at least the top layer (wear layer) of bamboo; ADD: ; ADD: Sustainably sourced bamboo products provide an environmentally preferable alternative due to the natural, renewable and	441873 - Wood; assembled flooring panels, of bamboo or with at least the top layer (wear layer) of bamboo	441872 - Wood; assembled flooring panels, multilayer, other than mosaic	FALSE	yes	X; based on description and the fact that HS2012 subheading was split into several HS2017 codes, all of which are listed in Annex 22A	441872

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					biodegradable nature of bamboo compared to other materials.						
31	441873	ex	441879	n:n	Wood; assembled flooring panels, of bamboo or with at least the top layer (wear layer) of bamboo; ADD: ; ADD: Sustainably sourced bamboo products provide an environmentally preferable alternative due to the natural, renewable and biodegradable nature of bamboo compared to other materials.	441873 - Wood; assembled flooring panels, of bamboo or with at least the top layer (wear layer) of bamboo	441879 - Wood; assembled flooring panels, other than multilayer or mosaic	FALSE	yes	X; based on description and the fact that HS2012 subheading was split into several HS2017 codes, all of which are listed in Annex 22A	441879
32	441875	ex	441872	n:1	Flooring panels, multilayer, assembled, of wood other than bamboo (excl. for mosaic floors); ADD: ; ADD: Environmentally preferable products based on end use or disposal characteristics.	441875 - Wood; assembled flooring panels, not of bamboo or with at least the top layer (wear layer) of bamboo, multilayer	441872 - Wood; assembled flooring panels, multilayer, other than mosaic	FALSE	yes	X; based on description and the fact that HS2012 subheading was split into several HS2017 codes, all of which are listed in Annex 22A	441872

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
33	441879	ex	441879	n:1	Wood; assembled flooring panels, n.e.c in headings 4418.73, 4418.74 or 4418.75; ADD: ; ADD: Sustainably sourced wood- based construction materials provide an environmentally preferable alternative to more carbon-intensive construction materials due to the natural, renewable and biodegradable nature of wood. Wood is a natural store of carbon dioxide gas and can play an important role in reducing GHG emissions in the construction sector.	441879 - Wood; assembled flooring panels, n.e.c in headings 4418.73, 4418.74 or 4418.75	441879 - Wood; assembled flooring panels, other than multilayer or mosaic	TRUE	yes	X; based on description and the fact that HS2012 subheading was split into several HS2017 codes, all of which are listed in Annex 22A	441879

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
34	441891	ex	441890	n:1	Builders' joinery and carpentry, of bamboo (excl. windows, French windows and their frames, doors and their frames and thresholds, posts and beams, assembled flooring panels, wooden shuttering for concrete constructional work, shingles, shakes and prefabricated buildings); ADD: ; ADD: These wood products are typically used structurally in wood building construction. For buildings and building products, life-cycle assessments (LCA) show that wood is generally better for the environment than other commonly used building materials in terms of embodied energy, air and water pollution and greenhouse gas emissions. Wood grows naturally using energy from the sun, is renewable, sustainable and recyclable. It is also an effective insulator.	441891 - Wood; builders' joinery and carpentry of wood n.e.c. in heading no. 4418, of bamboo	441890 - Wood; builders' joinery and carpentry of wood n.e.c. in heading no. 4418	FALSE	yes	X; based on description and the fact that HS2012 subheading was split into several HS2017 codes, all of which are listed in Annex 22A	441890

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
35	441899	ex	441890	n:1	Wood; builders' joinery and carpentry of wood n.e.c. in heading no. 4418, other than of bamboo; ADD: ; ADD: Sustainably sourced wood- based construction materials provide an environmentally preferable alternative to more carbon-intensive construction materials due to the natural, renewable and biodegradable nature of wood. Wood is a natural store of carbon dioxide gas and can play an important role in reducing GHG emissions in the construction sector.	441899 - Wood; builders' joinery and carpentry of wood n.e.c. in heading no. 4418, other than of bamboo	441890 - Wood; builders' joinery and carpentry of wood n.e.c. in heading no. 4418	FALSE	yes	X; based on description and the fact that HS2012 subheading was split into several HS2017 codes, all of which are listed in Annex 22A	441890
36*	450410		450410	1:1	Cork; blocks, plates, sheets and strip, tiles of any shape, solid cylinders (including discs), of agglomerated cork (with or without a binding substance); ADD: ; ADD: Cork can be used as an absorbent in the treatment of hydrocarbon, oil, solvent and organic compound spills. Cork can also be used for	450410 - Cork; blocks, plates, sheets and strip, tiles of any shape, solid cylinders (including discs), of agglomerated cork (with or without a binding substance)	450410 - -Blocks, plates, sheets and strip; tiles of any shape; solid cylinders, including discs 4504 - Agglomerated cork (with or without a binding substance) and articles of agglomerated cork.	TRUE	yes	X; based on description	450410

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					thermal insulation to improve the energy efficiency of buildings.						
37*	450490		450490	1:1	Cork; articles of agglomerated cork (with or without a binding substance), n.e.c. in heading no. 4504; ADD: ; ADD: Cork can be used for thermal insulation to improve the energy efficiency of buildings.	450490 - Cork; articles of agglomerated cork (with or without a binding substance), n.e.c. in heading no. 4504	450490 - -Other 4504 - Agglomerated cork (with or without a binding substance) and articles of agglomerated cork.	TRUE	yes	X; based on description	450490
38	460121		460121	1:1	Plaiting materials, plaits and similar products of plaiting materials; mats, matting and screens, of bamboo; ADD: Biodegradable, open weave, erosion control mesh, in rolls; ADD: Erosion control matting can reduce erosion, assist the establishment of vegetation, and can be used for a more environmentally friendly form of weed control. Erosion control matting and	460121 - Plaiting materials, plaits and similar products of plaiting materials; mats, matting and screens, of bamboo	460121 - -- Of bamboo 4601 - Plaits and similar products of plaiting materials, whether or not assembled into strips; plaiting materials, plaits and similar products of plaiting materials, bound together in parallel strands or woven, in sheet form, whether or not being finished articles (for example, mats, matting, screens).	TRUE	yes	X; based on description	460121

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					ground covers made of bamboo are biodegradable.						
39	460122		460122	1:1	Plaiting materials, plaits and similar products of plaiting materials; mats, matting and screens, of rattan; ADD: Biodegradable, open weave, erosion control mesh, in rolls; ADD: Erosion control matting can reduce erosion, assist the establishment of vegetation, and can be used for a more environmentally friendly form of weed control. Erosion control matting and ground covers made of rattan are biodegradable.	460122 - Plaiting materials, plaits and similar products of plaiting materials; mats, matting and screens, of rattan	460122 - -- Of rattan 4601 - Plaits and similar products of plaiting materials, whether or not assembled into strips; plaiting materials, plaits and similar products of plaiting materials, bound together in parallel strands or woven, in sheet form, whether or not being finished articles (for example, mats, matting, screens).	TRUE	yes	X; based on description	460122

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
40	460129		460129	1:1	Plaiting materials, plaits and similar products of plaiting materials; mats, matting and screens, of vegetable materials other than bamboo or rattan; ADD: Biodegradable, open weave, erosion control mesh, in rolls, excluding products of Igusa (Juncus effusus) or of Shichitai (Cyperus tegetiformis); ADD: Erosion control matting can reduce erosion, assist the establishment of vegetation, and can be used for a more environmentally friendly form of weed control. Erosion control matting and ground covers made of vegetable material are biodegradable.	460129 - Plaiting materials, plaits and similar products of plaiting materials; mats, matting and screens, of vegetable materials other than bamboo or rattan	460129 - -- Other 4601 - Plaits and similar products of plaiting materials, whether or not assembled into strips; plaiting materials, plaits and similar products of plaiting materials, bound together in parallel strands or woven, in sheet form, whether or not being finished articles (for example, mats, matting, screens).	TRUE	yes	X; based on description	460129

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
41	470620		470620	1:1	Pulp; of fibres derived from recovered (waste and scrap) paper or paperboard; ADD: ; ADD: Products under this subheading are derived from recovered materials. Recycled goods are key to moving towards a circular economy (i.e. retaining resources within the economy when a product has reached its end of life, so resources can be reused and create further value), as opposed to a linear economy model where resources are extracted, turned into a product, and disposed after use. Recycling extends the life of natural resources, reduces the generation of mining waste, reduces greenhouse gas emissions, diminishes pressures on disposal facilities, and preserves landfill capacity.	470620 - Pulp; of fibres derived from recovered (waste and scrap) paper or paperboard	470620 - -Pulps of fibres derived from recovered (waste and scrap) paper or paperboard	TRUE	yes	X; based on description	470620

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
42	470710		470710	1:1	Paper or paperboard; waste and scrap, of unbleached kraft paper or paperboard or corrugated paper or paperboard; ADD: ; ADD: Products under this subheading are derived from recovered materials. Recycled goods are key to moving towards a circular economy (i.e. retaining resources within the economy when a product has reached its end of life, so resources can be reused and create further value), as opposed to a linear economy model where resources are extracted, turned into a product, and disposed after use. Recycling extends the life of natural resources, reduces the generation of mining waste, reduces greenhouse gas emissions, diminishes pressures on disposal facilities, and preserves landfill capacity.	470710 - Paper or paperboard; waste and scrap, of unbleached kraft paper or paperboard or corrugated paper or paperboard	470710 - - Unbleached kraft paper or paperboard or corrugated paper or paperboard 4707 - Recovered (waste and scrap) paper or paperboard.	TRUE	yes	X; based on description	470710

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
43	470720		470720	1:1	Paper or paperboard; waste and scrap, paper or paperboard made mainly of bleached chemical pulp, not coloured in the mass; ADD: ; ADD: Products under this subheading are derived from recovered materials. Recycled goods are key to moving towards a circular economy (i.e. retaining resources within the economy when a product has reached its end of life, so resources can be reused and create further value), as opposed to a linear economy model where resources are extracted, turned into a product, and disposed after use. Recycling extends the life of natural resources, reduces the generation of mining waste, reduces greenhouse gas emissions, diminishes pressures on disposal facilities, and preserves landfill capacity.	470720 - Paper or paperboard; waste and scrap, paper or paperboard made mainly of bleached chemical pulp, not coloured in the mass	470720 - -Other paper or paperboard made mainly of bleached chemical pulp, not coloured in the mass 4707 - Recovered (waste and scrap) paper or paperboard.	TRUE	yes	X; based on description	470720

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
44	470730		470730	1:1	Paper or paperboard; waste and scrap, paper or paperboard made mainly of mechanical pulp (e.g. newspapers, journals and similar printed matter); ADD: ; ADD: Products under this subheading are derived from recovered materials. Recycled goods are key to moving towards a circular economy (i.e. retaining resources within the economy when a product has reached its end of life, so resources can be reused and create further value), as opposed to a linear economy model where resources are extracted, turned into a product, and disposed after use. Recycling extends the life of natural resources, reduces the generation of mining waste, reduces greenhouse gas emissions, diminishes pressures on disposal facilities, and preserves landfill capacity.	470730 - Paper or paperboard; waste and scrap, paper or paperboard made mainly of mechanical pulp (e.g. newspapers, journals and similar printed matter)	470730 - -Paper or paperboard made mainly of mechanical pulp (for example, newspapers, journals and similar printed matter) 4707 - Recovered (waste and scrap) paper or paperboard.	TRUE	yes	X; based on description	470730

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
45	470790		470790	1:1	Paper or paperboard; waste and scrap, of paper or paperboard n.e.c. in heading no. 4707 and of unsorted waste and scrap; ADD: ; ADD: Products under this subheading are derived from recovered materials. Recycled goods are key to moving towards a circular economy (i.e. retaining resources within the economy when a product has reached its end of life, so resources can be reused and create further value), as opposed to a linear economy model where resources are extracted, turned into a product, and disposed after use. Recycling extends the life of natural resources, reduces the generation of mining waste, reduces greenhouse gas emissions, diminishes pressures on disposal facilities, and preserves landfill capacity.	470790 - Paper or paperboard; waste and scrap, of paper or paperboard n.e.c. in heading no. 4707 and of unsorted waste and scrap	470790 - -Other, including unsorted waste and scrap 4707 - Recovered (waste and scrap) paper or paperboard.	TRUE	yes	X; based on description	470790

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
46	480519		480519	1:1	Paper and paperboard; uncoated, fluting paper other than semi-chemical or straw, rolls or sheets; ADD: Made wholly or mainly of pulp of recovered (waste or scrap) paper or paperboard; ADD: Recycled paper production allows for recovery of fibre from existing paper and has a lower environmental impact than the production of virgin paper.	480519 - Paper and paperboard; uncoated, fluting paper other than semi-chemical or straw, rolls or sheets	480519 - -- Other 4805 - Other uncoated paper and paperboard, in rolls or sheets, not further worked or processed than as specified in Note 3 to this Chapter.	TRUE	yes	X; based on description	480519
47	480524		480524	1:1	Paper & paperboard; uncoated, testliner (recycled linerboard), weight 150g/m2, or less, in rolls or sheets; ADD: ; ADD: Recycled paper production allows for recovery of fibre from existing paper and has a lower environmental impact than the production of virgin paper.	480524 - Paper & paperboard; uncoated, testliner (recycled linerboard), weight 150g/m2, or less, in rolls or sheets	480524 - -- Weighing 150 g/m ² or less 4805 - Other uncoated paper and paperboard, in rolls or sheets, not further worked or processed than as specified in Note 3 to this Chapter.	TRUE	yes	X; based on description	480524
48	480525		480525	1:1	Paper and paperboard; uncoated, testliner (recycled linerboard), weight over 150g/m2, in rolls or sheets; ADD: ; ADD: Recycled paper production allows for recovery of fibre from existing	480525 - Paper & paperboard; uncoated, testliner (recycled linerboard), weight over 150g/m2, in rolls or sheets	480525 - -- Weighing more than 150 g/m ² 4805 - Other uncoated paper and paperboard, in rolls or sheets, not further worked or processed than as	TRUE	yes	X; based on description	480525

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					paper and has a lower environmental impact than the production of virgin paper.		specified in Note 3 to this Chapter.				
49	480592		480592	1:1	Paper and paperboard; uncoated, weight more than 150g/m2 but less than 225 g/m2, in rolls or sheets, n.e.c. in heading no. 4805; ADD: Made wholly or mainly of pulp of recovered (waste or scrap) paper or paperboard; ADD: Recycled paper production allows for recovery of fibre from existing paper and has a lower environmental impact than the production of virgin paper.	480592 - Paper and paperboard; uncoated, weight more than 150g/m2 but less than 225 g/m2, in rolls or sheets, n.e.c. in heading no. 4805	480592 - -- Weighing more than 150 g/m ² but less than 225 g/m ² 4805 - Other uncoated paper and paperboard, in rolls or sheets, not further worked or processed than as specified in Note 3 to this Chapter.	TRUE	yes	X; based on description	480592
50	480593		480593	1:1	Paper and paperboard; uncoated, weight 225/m2 or more, in rolls or sheets, n.e.c. in heading no. 4805; ADD: Made wholly or mainly of pulp of recovered (waste or scrap) paper or paperboard; ADD: Recycled paper production allows for recovery of fibre from existing paper and has	480593 - Paper and paperboard; uncoated, weight 225/m2 or more, in rolls or sheets, n.e.c. in heading no. 4805	480593 - -- Weighing 225 g/m ² or more 4805 - Other uncoated paper and paperboard, in rolls or sheets, not further worked or processed than as specified in Note 3 to this Chapter.	TRUE	yes	X; based on description	480593

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					a lower environmental impact than the production of virgin paper.						
51	481092		481092	1:1	Paper and paperboard; multi-ply, coated with kaolin or other inorganic substances only, for non- graphic purposes, n.e.c. in heading no. 4810, in rolls or sheets; ADD: Made wholly or mainly of pulp of recovered (waste or scrap) paper or paperboard; ADD: Recycled paper production allows for recovery of fibre from existing paper and has a lower environmental impact than the production of virgin paper.	481092 - Paper and paperboard; multi-ply, coated with kaolin or other inorganic substances only, for non-graphic purposes, n.e.c. in heading no. 4810, in rolls or sheets	481092 - -- Multi-ply 4810 - Paper and paperboard, coated on one or both sides with kaolin (China clay) or other inorganic substances, with or without a binder, and with no other coating, whether or not surface-coloured, surface-decorated or printed, in rolls or rectangular (including square) sheets, of any size.	TRUE	yes	X; based on description	481092
52	500500		500500	1:1	Yarn spun from silk waste (excl. that put up for retail sale); ADD: ; ADD: Waste material that can be further utilised or recycled.	500500 - Silk; yarn spun from silk waste, not put up for retail sale	500500 - Yarn spun from silk waste, not put up for retail sale.	TRUE	yes	X; based on description	500500
53	500600		500600	1:1	Silk yarn and yarn spun from silk waste, put up for retail sale; silkworm gut; ADD: ;	500600 - Silk yarn and yarn spun from silk waste; put up	500600 - Silk yarn and yarn spun from silk waste, put up for	TRUE	yes	X; based on description	500600

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					ADD: Waste material that can be further utilised or recycled.	for retail sale, and silk-worm gut	retail sale; silk-worm gut.				
54	510111		510111	1:1	Wool; (not carded or combed), greasy (including fleece-washed wool), shorn; ADD: ; ADD: Wool is a natural, sustainable and biodegradable fibre, and a more preferable option to more carbon-intensive synthetic fibres. Wool has a variety of uses as a woven fabric and as a natural form of insulation.	510111 - Wool; (not carded or combed), greasy (including fleece-washed wool), shorn	510111 - -- Shorn wool 5101 - Wool, not carded or combed.	TRUE	yes	X; based on description	510111
55	510121		510121	1:1	Wool; (not carded or combed), degreased, (not carbonised), shorn; ADD: ; ADD: Wool is a natural, sustainable and biodegradable fibre, and a more preferable option to more carbon-intensive synthetic fibres. Wool has a variety of uses as a woven fabric and as a natural form of insulation.	510121 - Wool; (not carded or combed), degreased, (not carbonised), shorn	510121 - -- Shorn wool 5101 - Wool, not carded or combed.	TRUE	yes	X; based on description	510121

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
56	530110		530110	1:1	Flax; raw or retted, but not spun; ADD: ; ADD: Flax is a natural, sustainable and biodegradable vegetable fibre, and a preferable option to more carbon-intensive synthetic fibres. Flax is a traditional material used for weaving and can be used as a woven fibre and a composite material reinforcement.	530110 - Flax; raw or retted, but not spun	530110 - -Flax, raw or retted 5301 - Flax, raw or processed but not spun; flax tow and waste (including yarn waste and garnetted stock).	TRUE	yes	X; based on description	530110
57	530129		530129	1:1	Flax; hackled or otherwise processed, but not spun; ADD: ; ADD: Flax is a natural, sustainable and biodegradable vegetable fibre, and a preferable option to more carbon-intensive synthetic fibres. Flax is a traditional material used for weaving and can be used as a woven fibre and a composite material reinforcement.	530129 - Flax; hackled or otherwise processed, but not spun	530129 - -- Other 5301 - Flax, raw or processed but not spun; flax tow and waste (including yarn waste and garnetted stock).	TRUE	yes	X; based on description	530129
58	530310		530310	1:1	Jute and other textile bast fibres; raw or retted, but not spun, (excluding flax, hemp (cannabis sativa L.), and ramie); ADD: ; ADD: Jute is a natural, sustainable and biodegradable vegetable fibre, and a more preferable option	530310 - Jute and other textile bast fibres; raw or retted, but not spun, (excluding flax, hemp (cannabis sativa L.), and ramie)	530310 - -Jute and other textile bast fibres, raw or retted 5303 - Jute and other textile bast fibres (excluding flax, true hemp and ramie), raw or processed but not spun; tow and waste of these fibres	TRUE	yes	X; based on description	530310

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					compared to more carbon-intensive synthetic fibres. Jute has a variety of uses, including as a yarn for burlap, hessian and gunny cloth.		(including yarn waste and garnetted stock).				
59	530500		530500	1:1	Coconut, abaca (Manila hemp or Musa textilis Nee), ramie and other vegetable textile fibres n.e.c., raw or processed but not spun; tow, noils and waste of these fibres (including yarn waste and garnetted stock); ADD: ; ADD: Vegetable fibres are a natural, sustainable and biodegradable alternative to more carbon- intensive synthetic fibres.	530500 - Coconut, abaca (Manila hemp or Musa textilis Nee), ramie and other vegetable textile fibres n.e.c., raw or processed but not spun; tow, noils and waste of these fibres (including yarn waste and garnetted stock)	530500 - Coconut, abaca (Manila hemp or Musa textilis Nee), ramie and other vegetable textile fibres, not elsewhere specified or included, raw or processed but not spun; tow, noils and waste of these fibres (including yarn waste and garnetted stock).	TRUE	yes	X; based on description	530500
60	531010		531010	1:1	Woven fabrics of jute or of other textile bast fibres of heading 5303, unbleached; ADD: ; ADD: Jute is a natural, sustainable and biodegradable vegetable fibre and a more preferable option compared to more carbon-intensive synthetic fibres. Jute has a variety of uses, including as a yarn for	531010 - Fabrics, woven; of jute or of other textile bast fibres of heading no. 5303, unbleached	531010 - - Unbleached 5310 - Woven fabrics of jute or of other textile bast fibres of heading 53.03.	TRUE	yes	X; based on description	531010

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					burlap, hessian and gunny cloth.						
61	560394		560394	1:1	Nonwovens; whether or not impregnated, coated, covered or laminated, not of man-made filaments, (weighing more than 150g/m2); ADD: Non-woven, wholly wool or wool predominate mix matting, of a kind used for erosion control, establishment of plants, soil protection, sound- insulation, vibration- insulation, heat- insulation, ceiling/underfloor pipes, hot-water cylinders /wall insulation, or for lagging; ADD: Wool matting provides a protective layer over soil, thereby preventing soil erosion, suppressing weeds, preserving soil moisture and insulating plants from temperature extremes. It is a natural, sustainable and	560394 - Nonwovens; whether or not impregnated, coated, covered or laminated, not of man-made filaments, (weighing more than 150g/m2)	560394 - -- Weighing more than 150 g/m ² 5603 - Nonwovens, whether or not impregnated, coated, covered or laminated.	TRUE	yes	X; based on description	560394

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					<p>biodegradable alternative to similar products, and can act as a fertiliser.</p> <p>Wool blend insulation for ceilings, underfloor, pipes, walls and hot water cylinders also provides a natural, sustainable and biodegradable alternative to similar insulation products.</p>						
62	560790		560790	1:1	<p>Twine, cordage, ropes and cables, whether or not plaited or braided and whether or not impregnated, coated, covered or sheathed with rubber or plastics (excl. that of synthetic fibres and of sisal or other textile fibres of the genus Agave);</p> <p>ADD: ; ADD: More biodegradable than synthetic fibre alternatives and made from a renewable resource.</p>	560790 - Twine, cordage, ropes, cables; of materials n.e.c. in heading no. 5607, whether or not plaited, braided or impregnated, coated, covered, or sheathed with rubber or plastics	560790 - -Other 5607 - Twine, cordage, ropes and cables, whether or not plaited or braided and whether or not impregnated, coated, covered or sheathed with rubber or plastics.	TRUE	yes	X; based on description	560790

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
63	591190		591190	1:1	Textile products and articles, for technical purposes, specified in Note 7 to chapter 59, n.e.s.; ADD: ; ADD: Of a kind used as air filters.	591190 - Textile products and articles for technical uses; n.e.c. in heading no. 5911	591190 - -Other 5911 - Textile products and articles, for technical uses, specified in Note 7 to this Chapter.	TRUE	yes	X; based on description	591190
64	630510		630510	1:1	Sacks and bags, for the packing of goods, of jute or other textile bast fibres of heading 5303; ADD: ; ADD: More biodegradable than synthetic fibre alternatives and made from a renewable resource.	630510 - Sacks and bags; of a kind used for the packing of goods, of jute or of other textile bast fibres of heading no. 5303	630510 - -Of jute or of other textile bast fibres of heading 53.03 6305 - Sacks and bags, of a kind used for the packing of goods.	TRUE	yes	X; based on description	630510
65	631010		631010	1:1	Rags; used or new, scrap twine, cordage, rope and cables and worn out articles of twine, cordage, rope or cables, of textile materials; sorted; ADD: ; ADD: Conservation of resources by reuse and recycling existing material in line with a circular economy.	631010 - Rags; used or new, scrap twine, cordage, rope and cables and worn out articles of twine, cordage, rope or cables, of textile materials; sorted	631010 - -Sorted 6310 - Used or new rags, scrap twine, cordage, rope and cables and worn out articles of twine, cordage, rope or cables, of textile materials.	TRUE	yes	X; based on description	631010
66	631090		631090	1:1	Rags; used or new, scrap twine, cordage, rope and cables and worn out articles of twine, cordage, rope or cables, of textile materials; other than sorted; ADD: ; ADD: Conservation of resources by reuse and	631090 - Rags; used or new, scrap twine, cordage, rope and cables and worn out articles of twine, cordage, rope or cables, of textile materials; other than sorted	631090 - -Other 6310 - Used or new rags, scrap twine, cordage, rope and cables and worn out articles of twine, cordage, rope or cables, of textile materials.	TRUE	yes	X; based on description	631090

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					recycling existing material in line with a circular economy.						
67*	680610		680610	1:1	Slag-wool, rock-wool and similar mineral wools, incl. intermixtures thereof, in bulk, sheets or rolls; ADD: ; ADD: Of a kind used for sound insulation and sound absorption as well as for thermal insulation. Insulation materials help in improving the energy efficiency of buildings.	680610 - Slag wool, rock wool and similar mineral wools (including intermixtures thereof), in bulk, sheets or rolls	680610 - -Slag wool, rock wool and similar mineral wools (including intermixtures thereof), in bulk, sheets or rolls	TRUE	yes	X; based on description	680610
68*	680690		680690	1:1	Mixtures and articles of heat-insulating, sound-insulating or sound absorbing mineral materials (excl. slag-wool, rock-wool and similar mineral wools, exfoliated vermiculite, expanded clays, foamed slag and similar expanded mineral materials, articles of light concrete, asbestos- cement, cellulose fibre- cement or the like, mixtures and other articles of or based on asbestos and ceramic products);	680690 - Minerals; mixtures and articles of heat-insulating, sound-absorbing mineral materials, other than those of heading no. 6811 or 6812 or of chapter 69	680690 - -Other 6806 - Slag wool, rock wool and similar mineral wools; exfoliated vermiculite, expanded clays, foamed slag and similar expanded mineral materials; mixtures and articles of heat-insulating, sound-insulating or sound-absorbing mineral materials, other than those of heading 68.11 or	TRUE	yes	X; based on description	680690

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					ADD: ; ADD: Of a kind used for sound insulation and sound absorption as well as for thermal insulation. Insulation materials help in improving the energy efficiency of buildings.		68.12 or of Chapter 69.				
69*	680800		680800	1:1	Panels, boards, tiles, blocks and the like; of vegetable fibre, of straw, shavings, chips, particles, sawdust or other waste, of wood, agglomerated with cement, plaster or other mineral binders; ADD: Insulation products; ADD: Waste material under this subheading includes wood waste, coir, and reed, which can be recycled into insulation products. Insulation materials help in reducing energy consumption in buildings thermal insulation to improve the energy efficiency of buildings.	680800 - Panels, boards, tiles, blocks and the like; of vegetable fibre, of straw, shavings, chips, particles, sawdust or other waste, of wood, agglomerated with cement, plaster or other mineral binders	680800 - Panels, boards, tiles, blocks and similar articles of vegetable fibre, of straw or of shavings, chips, particles, sawdust or other waste, of wood, agglomerated with cement, plaster or other mineral binders.	TRUE	yes	X; based on description	680800

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
70	681510	ex	681510	n:1	Articles of graphite or other carbon, incl. carbon fibres, for non-electrical purposes; ADD: ; ADD: Carbon fibre materials, of a kind are used in renewables and in wider manufactured goods where they enhance power efficiency and reduce weight.	681510 - Stone articles and articles of other mineral substances; non-electrical articles of graphite or other carbon	681510 - Stone articles and other mineral substances, non-electrical articles of graphite or other carbon	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	681510
71	691010		691010	1:1	Ceramic sinks, wash basins, wash basin pedestals, baths, bidets, water closet pans, flushing cisterns, urinals and similar sanitary fixtures; of porcelain or china; ADD: Composting toilets; ADD: Composting toilets minimise water use and provide self- contained sewage treatment on site, with no need for sewers and treatment plants. They also do not pollute ground or surface water or soil (unlike septic tanks or pit latrines) and produce safe, useful compost.	691010 - Ceramic sinks, wash basins, wash basin pedestals, baths, bidets, water closet pans, flushing cisterns, urinals and similar sanitary fixtures; of porcelain or china	691010 - -Of porcelain or china 6910 - Ceramic sinks, wash basins, wash basin pedestals, baths, bidets, water closet pans, flushing cisterns, urinals and similar sanitary fixtures.	TRUE	yes	X; based on description	691010

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
72	691010		691010	1:1	Ceramic sinks, wash basins, wash basin pedestals, baths, bidets, water closet pans, flushing cisterns, urinals and similar sanitary fixtures; of porcelain or china; ADD: Dual flushing cisterns; ADD: Dual flush toilets minimise water use and, thus, contribute to the reduction of water stress.	691010 - Ceramic sinks, wash basins, wash basin pedestals, baths, bidets, water closet pans, flushing cisterns, urinals and similar sanitary fixtures; of porcelain or china	691010 - -Of porcelain or china 6910 - Ceramic sinks, wash basins, wash basin pedestals, baths, bidets, water closet pans, flushing cisterns, urinals and similar sanitary fixtures.	TRUE	yes	X; based on description	691010
73	691010		691010	1:1	Ceramic sinks, wash basins, wash basin pedestals, baths, bidets, water closet pans, flushing cisterns, urinals and similar sanitary fixtures; of porcelain or china; ADD: Waterless urinals; ADD: Waterless urinals and dual flush toilets minimise water use and, thus, contribute to the reduction of water stress.	691010 - Ceramic sinks, wash basins, wash basin pedestals, baths, bidets, water closet pans, flushing cisterns, urinals and similar sanitary fixtures; of porcelain or china	691010 - -Of porcelain or china 6910 - Ceramic sinks, wash basins, wash basin pedestals, baths, bidets, water closet pans, flushing cisterns, urinals and similar sanitary fixtures.	TRUE	yes	X; based on description	691010
74*	700510		700510	1:1	Glass; float glass and surface ground or polished glass, in sheets, non-wired, having an absorbent reflecting or non-reflecting layer; ADD: Glass substrate with transparent conductive oxide and with sheet	700510 - Glass; float glass and surface ground or polished glass, in sheets, non-wired, having an absorbent reflecting or non-reflecting layer	700510 - -Non-wired glass, having an absorbent, reflecting or non-reflecting layer 7005 - Float glass and surface ground or polished glass, in sheets, whether or not having an	TRUE	yes	X; based on description	700510

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					<p>resistance <60 Ohms per square and haze ratio >7</p> <p>%; ADD: Coated glass is a key component of a Dye Solar Cell assembly for generating renewable solar electricity.</p>		absorbent, reflecting or non-reflecting layer, but not otherwise worked.				
75*	700719		700719	1:1	<p>Glass; safety glass, toughened (tempered), (not of a size and shape suitable for incorporation in vehicles, aircraft, spacecraft or vessels); ADD: Solar glass consisting of tempered soda- lime-flat-glass, whose surface is figured, with a transmittance of more than 88 % and an iron content of less than 300 ppm.; ADD: Solar glass is a key component of solar photovoltaic modules for generating renewable solar energy</p>	700719 - Glass; safety glass, toughened (tempered), (not of a size and shape suitable for incorporation in vehicles, aircraft, spacecraft or vessels)	700719 - -- Other 7007 - Safety glass, consisting of toughened (tempered) or laminated glass.	TRUE	yes	X; based on description	700719
76	700800		700800	1:1	<p>Glass; multiple-walled insulating units of glass; ADD: ; ADD: Insulated glass units contribute to energy savings in residential and commercial buildings.</p>	700800 - Glass; multiple-walled insulating units of glass	700800 - Multiple-walled insulating units of glass.	TRUE	yes	X; based on description	700800

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
77*	700991		700991	1:1	Glass mirrors, unframed (excl. rear-view mirrors for vehicles, optical mirrors, optically worked, mirrors > 100 years old); ADD: ; ADD: Mirrors of a type suitable for use reflecting and concentrating sunlight on to collectors whether of a thermal/steam boiler or Photovoltaic Solar Cell type, for the production of renewable electricity.	700991 - Glass mirrors; unframed, excluding rear-view mirrors for vehicles	700991 - -- Unframed 7009 - Glass mirrors, whether or not framed, including rear-view mirrors.	TRUE	yes	X; based on description	700991
78	701931		701931	1:1	Mats of irregularly laminated glass fibres; ADD: ; ADD: Of a kind used for sound insulation and sound absorption as well as for thermal insulation.	701931 - Glass fibres; non-woven products, mats	701931 - -- Mats 7019 - Glass fibres (including glass wool) and articles thereof (for example, yarn, woven fabrics).	TRUE	yes	X; based on description	701931
79	701939		701939	1:1	Webs, mattresses, boards and similar nonwoven products, of glass fibres (excl. mats and thin sheets "voiles"); ADD: ; ADD: Of a kind used for sound insulation and sound absorption as well as for thermal insulation and in the production of air filters.	701939 - Glass fibres; webs, mattresses, boards and similar non-woven products excluding mats and thin sheets	701939 - -- Other 7019 - Glass fibres (including glass wool) and articles thereof (for example, yarn, woven fabrics).	TRUE	yes	X; based on description	701939

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
80	701990		701990	1:1	Glass fibres; n.e.c. in heading no. 7019; ADD: Glass fibre filters; ADD: Fibreglass products are used as filters in industrial air pollution control equipment (separators, precipitators, tanks, pipe systems, scrubbers).	701990 - Glass fibres; n.e.c. in heading no. 7019	701990 - -Other 7019 - Glass fibres (including glass wool) and articles thereof (for example, yarn, woven fabrics).	TRUE	yes	X; based on description	701990
81	720410		720410	1:1	<p>Ferrous waste and scrap; of cast iron; ADD: ; ADD: Recycling precious metals and compounds results in major energy savings, reduces greenhouse gas emissions, diminishes pressures on disposal facilities, and preserves landfill capacity.</p> <p>Recycled goods are key to moving towards a circular economy (i.e. retaining resources within the economy when a product has reached its end of life, so resources can be reused and create further value), as opposed to a linear economy model where resources are extracted, turned into a product, and disposed after use. Recycling</p>	720410 - Ferrous waste and scrap; of cast iron	720410 - -Waste and scrap of cast iron 7204 - Ferrous waste and scrap; remelting scrap ingots of iron or steel.	TRUE	yes	X; based on description	720410

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					extends the life of natural resources, reduces the generation of mining waste, reduces greenhouse gas emissions, diminishes pressures on disposal facilities, and preserves landfill capacity.						
82	720421		720421	1:1	<p>Ferrous waste and scrap; of stainless steel; ADD: ; ADD: Recycling precious metals and compounds results in major energy savings, reduces greenhouse gas emissions, diminishes pressures on disposal facilities, and preserves landfill capacity.</p> <p>Recycled goods are key to moving towards a circular economy (i.e. retaining resources within the economy when a product has reached its end of life,</p>	720421 - Ferrous waste and scrap; of stainless steel	720421 - -- Of stainless steel 7204 - Ferrous waste and scrap; remelting scrap ingots of iron or steel.	TRUE	yes	X; based on description	720421

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					so resources can be reused and create further value), as opposed to a linear economy model where resources are extracted, turned into a product, and disposed after use. Recycling extends the life of natural resources, reduces the generation of mining waste, reduces greenhouse gas emissions, diminishes pressures on disposal facilities, and preserves landfill capacity.						
83	720429		720429	1:1	<p>Ferrous waste and scrap; of alloy steel (excluding stainless); ADD: ; ADD: Recycling precious metals and compounds results in major energy savings, reduces greenhouse gas emissions, diminishes pressures on disposal facilities, and preserves landfill capacity.</p> <p>Recycled goods are key to moving towards a circular economy (i.e. retaining resources within the economy when a product has</p>	720429 - Ferrous waste and scrap; of alloy steel (excluding stainless)	720429 - -- Other 7204 - Ferrous waste and scrap; remelting scrap ingots of iron or steel.	TRUE	yes	X; based on description	720429

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					reached its end of life, so resources can be reused and create further value), as opposed to a linear economy model where resources are extracted, turned into a product, and disposed after use. Recycling extends the life of natural resources, reduces the generation of mining waste, reduces greenhouse gas emissions, diminishes pressures on disposal facilities, and preserves landfill capacity.						
84	720430		720430	1:1	<p>Ferrous waste and scrap; of tinned iron or steel; ADD: ; ADD: Recycling precious metals and compounds results in major energy savings, reduces greenhouse gas emissions, diminishes pressures on disposal facilities, and preserves landfill capacity.</p> <p>Recycled goods are key to moving towards a circular economy (i.e. retaining resources within the economy when a product has reached its end of life,</p>	720430 - Ferrous waste and scrap; of tinned iron or steel	720430 - -Waste and scrap of tinned iron or steel 7204 - Ferrous waste and scrap; remelting scrap ingots of iron or steel.	TRUE	yes	X; based on description	720430

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					so resources can be reused and create further value), as opposed to a linear economy model where resources are extracted, turned into a product, and disposed after use. Recycling extends the life of natural resources, reduces the generation of mining waste, reduces greenhouse gas emissions, diminishes pressures on disposal facilities, and preserves landfill capacity.						

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
85	720441		720441	1:1	<p>Ferrous waste and scrap; turnings, shavings, chips, milling waste, sawdust, fillings, trimmings and stampings, whether or not in bundles; ADD: ; ADD: Recycling precious metals and compounds results in major energy savings, reduces greenhouse gas emissions, diminishes pressures on disposal facilities, and preserves landfill capacity.</p> <p>Recycled goods are key to moving towards a circular economy (i.e. retaining resources within the economy when a product has reached its end of life, so resources can be reused and create further value), as opposed to a linear economy model where resources are extracted, turned into a product, and disposed after use. Recycling extends the life of natural resources, reduces the generation of mining waste, reduces greenhouse gas emissions,</p>	720441 - Ferrous waste and scrap; turnings, shavings, chips, milling waste, sawdust, fillings, trimmings and stampings, whether or not in bundles	720441 - -- Turnings, shavings, chips, milling waste, sawdust, filings, trimmings and stampings, whether or not in bundles	TRUE	yes	X; based on description	720441

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					diminishes pressures on disposal facilities, and preserves landfill capacity.						

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
86	720449		720449	1:1	<p>Ferrous waste and scrap;</p> <p>n.e.c. in heading no. 7204; ADD: ; ADD: Recycling precious metals and compounds results in major energy savings, reduces greenhouse gas emissions, diminishes pressures on disposal facilities, and preserves landfill capacity.</p> <p>Recycled goods are key to moving towards a circular economy (i.e. retaining resources within the economy when a product has reached its end of life, so resources can be reused and create further value), as opposed to a linear economy model where resources are extracted, turned into a product, and disposed after use. Recycling extends the life of natural resources, reduces the generation of mining waste, reduces greenhouse gas emissions, diminishes pressures on disposal facilities,</p>	720449 - Ferrous waste and scrap; n.e.c. in heading no. 7204	720449 - -- Other 7204 - Ferrous waste and scrap; remelting scrap ingots of iron or steel.	TRUE	yes	X; based on description	720449

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and preserves landfill capacity.						

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
87	720450		720450	1:1	<p>Ferrous products; remelting scrap ingots; ADD: ; ADD: Recycling precious metals and compounds results in major energy savings, reduces greenhouse gas emissions, diminishes pressures on disposal facilities, and preserves landfill capacity.</p> <p>Recycled goods are key to moving towards a circular economy (i.e. retaining resources within the economy when a product has reached its end of life, so resources can be reused and create further value), as opposed to a linear economy model where resources are extracted, turned into a product, and disposed after use. Recycling extends the life of natural resources, reduces the generation of mining waste, reduces greenhouse gas emissions, diminishes pressures on disposal facilities, and preserves landfill capacity.</p>	720450 - Ferrous products; remelting scrap ingots	720450 - -Remelting scrap ingots 7204 - Ferrous waste and scrap; remelting scrap ingots of iron or steel.	TRUE	yes	X; based on description	720450

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
88	722511		722511	1:1	Flat-rolled products of silicon-electrical steel, of a width of >= 600 mm, grain-oriented; ADD: ; ADD: Grain Oriented Electrical Steel (GOES) of a kind used in power and distribution transformers. This product achieves efficient energy- saving and contributes to minimising transmission loss by reducing core loss compared to that of conventional steel.	722511 - Steel, alloy; flat-rolled, width 600mm or more, of silicon-electrical steel, grain-oriented	722511 - -- Grain-oriented 7225 - Flat-rolled products of other alloy steel, of a width of 600 mm or more.	TRUE	yes	X; based on description	722511
89	722611		722611	1:1	Flat-rolled products of silicon-electrical steel, of a width of < 600 mm, hot-rolled or cold-rolled "cold-reduced", grain-oriented; ADD: ; ADD: Grain Oriented Electrical Steel (GOES) of a kind used in power and distribution transformers. This product achieves efficient energy- saving and contributes to minimising transmission loss by reducing core loss compared to that of conventional steel.	722611 - Steel, alloy; flat-rolled, width less than 600mm, of silicon-electrical steel, grain-oriented	722611 - -- Grain-oriented 7226 - Flat-rolled products of other alloy steel, of a width of less than 600 mm.	TRUE	yes	X; based on description	722611

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
90	730210		730210	1:1	Rails of iron or steel, for railway or tramway track (excl. check-rails); ADD: ; ADD: Transport infrastructure for rail supports a cleaner transport mode than alternatives, particularly with the electrification of rail.	730210 - Iron or steel, railway or tramway track construction material; rails	730210 - -Rails 7302 - Railway or tramway track construction material of iron or steel, the following : rails, check-rails and rack rails, switch blades, crossing frogs, point rods and other crossing pieces, sleepers (cross-ties), fish-plates, chairs, chair wedges, sole plates (base plates), rail clips, bedplates, ties and other material specialized for jointing or fixing rails.	TRUE	yes	X; based on description	730210
91	730230		730230	1:1	Switch blades, crossing frogs, point rods and other crossing pieces, for railway or tramway track, of iron or steel; ADD: ; ADD: Transport infrastructure for rail supports a cleaner transport mode than alternatives, particularly with the electrification of rail.	730230 - Iron or steel, railway or tramway track construction material; switch blades, crossing frogs, point rods and other crossing pieces	730230 - -Switch blades, crossing frogs, point rods and other crossing pieces 7302 - Railway or tramway track construction material of iron or steel, the following : rails, check-rails and rack rails, switch blades, crossing frogs, point rods and other crossing pieces, sleepers (cross-ties), fish-plates, chairs, chair	TRUE	yes	X; based on description	730230

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
							wedges, sole plates (base plates), rail clips, bedplates, ties and other material specialized for jointing or fixing rails.				
92	730240		730240	1:1	Fish-plates and sole plates of iron or steel, for railways or tramways; ADD: ; ADD: Transport infrastructure for rail supports a cleaner transport mode than alternatives, particularly with the electrification of rail.	730240 - Iron or steel, railway or tramway track construction material; fish-plates and sole plates	730240 - -Fish-plates and sole plates 7302 - Railway or tramway track construction material of iron or steel, the following : rails, check-rails and rack rails, switch blades, crossing frogs, point rods and other crossing pieces, sleepers (cross-ties), fish-plates, chairs, chair wedges, sole plates (base plates), rail clips, bedplates, ties and other material specialized for jointing or fixing rails.	TRUE	yes	X; based on description	730240

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
93	730290		730290	1:1	Sleepers "cross-ties", check-rails, rack rails, chairs, chair wedges, rail clips, bedplates and ties and other specialised material for the jointing or fixing of railway or tramway track, of iron or steel (excl. rails, switch blades, crossing frogs, point rods and other crossing pieces and fish- plates and sole plates); ADD: ; ADD: Transport infrastructure for rail supports a cleaner transport mode than alternatives, particularly with the electrification of rail.	730290 - Iron or steel, railway or tramway track construction material; n.e.c. in heading no. 7302	730290 - -Other 7302 - Railway or tramway track construction material of iron or steel, the following : rails, check-rails and rack rails, switch blades, crossing frogs, point rods and other crossing pieces, sleepers (cross-ties), fish-plates, chairs, chair wedges, sole plates (base plates), rail clips, bedplates, ties and other material specialized for jointing or fixing rails.	TRUE	yes	X; based on description	730290
94	730820		730820	1:1	Iron or steel; structures and parts thereof, towers and lattice masts; ADD: Wind turbine towers; ADD: Products used to elevate and support a wind turbine for the generation of renewable energy.	730820 - Iron or steel; structures and parts thereof, towers and lattice masts	730820 - -Towers and lattice masts 7308 - 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	TRUE	yes	X; based on description	730820

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
							and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel.				
95*	730890		730890	1:1	Structures and parts of structures, of iron or steel, n.e.s. (excl. bridges and bridge-sections, towers and lattice masts, doors and windows and their frames, thresholds for doors, props and similar equipment for scaffolding, shuttering, propping or pit-propping); ADD: ; ADD: Components of wind turbines, which generate low or no carbon emissions and no soil and water pollution.	730890 - Iron or steel; structures and parts thereof, n.e.c. in heading 7308	730890 - -Other 7308 - 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.	TRUE	yes	X; based on description	730890

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
96	730900		730900	1:1	Reservoirs, tanks, vats and similar containers, of iron or steel, for any material "other than compressed or liquefied gas", of a capacity of > 300 l, not fitted with mechanical or thermal equipment, whether or not lined or heat- insulated (excl. containers specifically constructed or equipped for one or more types of transport); ADD: ; ADD: Containers of any material, of any form, for liquid or solid waste, including for municipal or dangerous waste. Of a kind used in the delivery of environmental services and renewable energy generation.	730900 - Reservoirs, tanks, vats and similar containers; for any material (excluding compressed or liquefied gas), of iron or steel, capacity exceeding 300l, whether or not lined or heat insulated	730900 - 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.	TRUE	yes	X; based on description	730900
97	731511		731511	1:1	Chain; articulated link, roller, of iron or steel; ADD: Bicycle roller chain; ADD: Bicycles and their parts provide a environmentally friendly, low-carbon mode of transportation, which can contribute to lowering GHG emissions in the transport sector as well as reducing air pollution.	731511 - Chain; articulated link, roller, of iron or steel	731511 - -- Roller chain 7315 - Chain and parts thereof, of iron or steel.	TRUE	yes	X; based on description	731511

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
98	732020		732020	1:1	Helical springs, of iron or steel (excl. flat spiral springs, clock and watch springs, springs for sticks and handles of umbrellas or parasols and shock absorbers of Section 17); ADD: ; ADD: Bicycles and their spare parts exert positive effect on reducing exhaust emissions from automobiles, air pollution and greenhouse effect, etc.	732020 - Iron or steel; helical springs and leaves for springs	732020 - -Helical springs	TRUE	yes	X; based on description	732020
99	732490		732490	1:1	Iron or steel; sanitary ware and parts thereof, excluding sinks, wash basins and baths; ADD: Composting toilets; ADD: Composting toilets minimise water use and provide self-contained sewage treatment on site, with no need for sewers and treatment plants. They also do not pollute ground or surface water or soil (unlike septic tanks or pit latrines) and produce safe, useful compost.	732490 - Iron or steel; sanitary ware and parts thereof, excluding sinks, wash basins and baths	732490 - -Other, including parts 7324 - Sanitary ware and parts thereof, of iron or steel.	TRUE	yes	X; based on description	732490

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
100	732490		732490	1:1	Iron or steel; sanitary ware and parts thereof, excluding sinks, wash basins and baths; ADD: Water closet pans and flushing cisterns/urinals including dry closets; ADD: Dry closets (operating on the basis of composting) are designed to conserve water.	732490 - Iron or steel; sanitary ware and parts thereof, excluding sinks, wash basins and baths	732490 - -Other, including parts 7324 - Sanitary ware and parts thereof, of iron or steel.	TRUE	yes	X; based on description	732490
101	732490		732490	1:1	Iron or steel; sanitary ware and parts thereof, excluding sinks, wash basins and baths; ADD: Water conserving showers (provided with a specific water-efficiency shower head); ADD: Water conserving showers are designed to conserve water and reduce energy consumption.	732490 - Iron or steel; sanitary ware and parts thereof, excluding sinks, wash basins and baths	732490 - -Other, including parts 7324 - Sanitary ware and parts thereof, of iron or steel.	TRUE	yes	X; based on description	732490
102	732490		732490	1:1	Iron or steel; sanitary ware and parts thereof, excluding sinks, wash basins and baths; ADD: Waterless urinals; ADD: Waterless urinals minimise water and energy use, resulting in significantly less carbon emissions compared to other urinal systems.	732490 - Iron or steel; sanitary ware and parts thereof, excluding sinks, wash basins and baths	732490 - -Other, including parts 7324 - Sanitary ware and parts thereof, of iron or steel.	TRUE	yes	X; based on description	732490

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
103*	750890		750890	1:1	Nickel; articles thereof n.e.c. in item no. 7508.1; ADD: High temperature superconducting cables; ADD: High temperature superconducting (HTS) cables are electrical transmission cables capable of carrying electrical currents with effectively zero resistance at low temperatures. HTS technology is vastly more energy efficient, resulting in significantly less electricity loss and lower maintenance requirements than traditional copper or aluminium transmission cables.	750890 - Nickel; articles thereof n.e.c. in item no. 7508.1	750890 - -Other 7508 - Other articles of nickel.	TRUE	yes	X; based on description	750890
104	761520		761520	1:1	Aluminium; sanitary ware and parts thereof; ADD: Composting toilets; ADD: Composting toilets are useful where local sewage or water supply systems are unavailable.	761520 - Aluminium; sanitary ware and parts thereof	761520 - -Sanitary ware and parts thereof 7615 - Table, kitchen or other household articles and parts thereof, of aluminium; pot scourers and scouring or polishing pads, gloves and the like, of aluminium; sanitary ware and parts thereof, of aluminium.	TRUE	yes	X; based on description	761520

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
105	761520		761520	1:1	Aluminium; sanitary ware and parts thereof; ADD: Waterless urinals; ADD: Waterless urinals minimise water and energy use, resulting in significantly less carbon emissions compared to other urinal systems.	761520 - Aluminium; sanitary ware and parts thereof	761520 - -Sanitary ware and parts thereof 7615 - Table, kitchen or other household articles and parts thereof, of aluminium; pot scourers and scouring or polishing pads, gloves and the like, of aluminium; sanitary ware and parts thereof, of aluminium.	TRUE	yes	X; based on description	761520
106	840211		840211	1:1	Boilers; watertube boilers with a steam production exceeding 45t per hour; ADD: Heat recovery steam generators; ADD: A heat recovery steam generator, or HRSG, is an energy recovery heat exchanger that recovers heat from a hot gas stream. It produces steam that can be used in a process (cogeneration) or used to drive a steam turbine (combined cycle).	840211 - Boilers; watertube boilers with a steam production exceeding 45t per hour	840211 - -- Watertube boilers with a steam production exceeding 45 t per hour 8402 - Steam or other vapour generating boilers (other than central heating hot water boilers capable also of producing low pressure steam); super-heated water boilers.	TRUE	yes	X; based on description	840211

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
107	840211		840211	1:1	Boilers; watertube boilers with a steam production exceeding 45t per hour; ADD: Chemical recovery boilers; ADD: Chemical recovery boilers use black liquor, a by-product of the pulping process, to generate electricity, as well as retrieve chemicals used in the pulping process for reuse.	840211 - Boilers; watertube boilers with a steam production exceeding 45t per hour	840211 - -- Watertube boilers with a steam production exceeding 45 t per hour 8402 - Steam or other vapour generating boilers (other than central heating hot water boilers capable also of producing low pressure steam); super-heated water boilers.	TRUE	yes	X; based on description	840211
108	840211		840211	1:1	Boilers; watertube boilers with a steam production exceeding 45t per hour; ADD: Combined heat and power boilers; ADD: Combined heat and power boilers contribute significantly to energy efficiency by utilising the waste heat in power generation activities. A heat recovery steam generator, or HRSG, is an energy recovery heat exchanger that recovers heat from a hot gas stream. It produces steam that can be used in a process (cogeneration) or used to drive a steam turbine (combined cycle).	840211 - Boilers; watertube boilers with a steam production exceeding 45t per hour	840211 - -- Watertube boilers with a steam production exceeding 45 t per hour 8402 - Steam or other vapour generating boilers (other than central heating hot water boilers capable also of producing low pressure steam); super-heated water boilers.	TRUE	yes	X; based on description	840211

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
109	840212		840212	1:1	Boilers; watertube boilers with a steam production not exceeding 45t per hour; ADD: Heat recovery steam generators; ADD: A heat recovery steam generator is an energy recovery heat exchanger that recovers heat from a hot gas stream. It produces steam that can be used in a process (cogeneration) or used to drive a steam turbine (combined cycle).	840212 - Boilers; watertube boilers with a steam production not exceeding 45t per hour	840212 - -- Watertube boilers with a steam production not exceeding 45 t per hour 8402 - Steam or other vapour generating boilers (other than central heating hot water boilers capable also of producing low pressure steam); super-heated water boilers.	TRUE	yes	X; based on description	840212
110	840212		840212	1:1	Boilers; watertube boilers with a steam production not exceeding 45t per hour; ADD: Combined heat and power boilers; ADD: Combined heat and power contributes significantly to energy efficiency by utilising the waste heat in power generation activities.	840212 - Boilers; watertube boilers with a steam production not exceeding 45t per hour	840212 - -- Watertube boilers with a steam production not exceeding 45 t per hour 8402 - Steam or other vapour generating boilers (other than central heating hot water boilers capable also of producing low pressure steam); super-heated water boilers.	TRUE	yes	X; based on description	840212

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
111	840219		840219	1:1	Boilers; vapour generating boilers, including hybrid boilers n.e.c. in heading no. 8402; ADD: Heat recovery steam generators; ADD: A heat recovery steam generator is an energy recovery heat exchanger that recovers heat from a hot gas stream. It produces steam that can be used in a process (cogeneration) or used to drive a steam turbine (combined cycle).	840219 - Boilers; vapour generating boilers, including hybrid boilers n.e.c. in heading no. 8402	840219 - -- Other vapour generating boilers, including hybrid boilers 8402 - Steam or other vapour generating boilers (other than central heating hot water boilers capable also of producing low pressure steam); super-heated water boilers.	TRUE	yes	X; based on description	840219
112	840219		840219	1:1	Boilers; vapour generating boilers, including hybrid boilers n.e.c. in heading no. 8403; ADD: Combined heat and power boilers; ADD: Waste heat recovery boilers are used to support waste heat recovery processes without any fuels. Combined heat and power contributes significantly to energy efficiency by utilising the waste heat in power generation activities.	840219 - Boilers; vapour generating boilers, including hybrid boilers n.e.c. in heading no. 8402	840219 - -- Other vapour generating boilers, in 8402 - Steam or other vapour generating boilers (other than central heating hot water boilers capable also of producing low pressure steam); super-heated water boilers.cluding hybrid boilers	TRUE	yes	X; based on description	840219

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
113	840410		840410	1:1	Boilers; auxiliary plant, for use with boilers of heading no. 8402 or 8403 (e.g. economisers, super-heaters, soot removers, gas recoverers); ADD: ; ADD: Components of industrial air pollution control plants used to minimise the release of pollutants into the atmosphere. This equipment is also used to support waste heat recovery processes in waste treatment, or renewable energy resource recovery applications.	840410 - Boilers; auxiliary plant, for use with boilers of heading no. 8402 or 8403 (e.g. economisers, super-heaters, soot removers, gas recoverers)	840410 - -Auxiliary plant for use with boilers of heading 84.02 or 84.03 8404 - Auxiliary plant for use with boilers of heading 84.02 or 84.03 (for example, economisers, super-heaters, soot removers, gas recoverers); condensers for steam or other vapour power units.	TRUE	yes	X; based on description	840410
114	840420		840420	1:1	Boilers; condensers, for steam or other vapour power units; ADD: ; ADD: Condensers can be used to cool gas streams to temperatures which allow for the removal of contaminants, such as Volatile Organic Compounds like benzene.	840420 - Boilers; condensers, for steam or other vapour power units	840420 - - Condensers for steam or other vapour power units 8404 - Auxiliary plant for use with boilers of heading 84.02 or 84.03 (for example, economisers, super-heaters, soot removers, gas recoverers); condensers for steam or other vapour power units.	TRUE	yes	X; based on description	840420

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
115	840490		840490	1:1	Boilers; parts of auxiliary plant, for use with boilers of heading no. 8402 and 8403 and parts of condensers for steam or other vapour power units; ADD: ; ADD: Parts and accessories for equipment classified under 8404.10. This secondary equipment is also used to support waste heat recovery processes, such as boilers mentioned above, in waste treatment, or renewable energy resource recovery applications.	840490 - Boilers; parts of auxiliary plant, for use with boilers of heading no. 8402 and 8403 and parts of condensers for steam or other vapour power units	840490 - -Parts 8404 - Auxiliary plant for use with boilers of heading 84.02 or 84.03 (for example, economisers, super-heaters, soot removers, gas recoverers); condensers for steam or other vapour power units.	TRUE	yes	X; based on description	840490
116	840510		840510	1:1	Generators; producer gas, water gas, acetylene gas and similar water process gas generators, with or without their purifiers; ADD: Include only those with purifiers; ADD: Purifiers remove contaminants (such as cyanide or sulphur compounds) produced in the manufacture of gases.	840510 - Generators; producer gas, water gas, acetylene gas and similar water process gas generators, with or without their purifiers	840510 - -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	TRUE	yes	X; based on description	840510
117	840681		840681	1:1	Turbines; steam and other vapour turbines, (for other than marine propulsion), of an output exceeding	840681 - Turbines; steam and other vapour turbines, (for other than marine propulsion), of an	840681 - -- Of an output exceeding 40 MW 8406 - Steam turbines and other vapour turbines.	TRUE	yes	X; based on description	840681

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					40MW; ADD: ; ADD: Steam and vapour turbines are key components for the production of geothermal energy and co-generation.	output exceeding 40MW					
118	840682		840682	1:1	Turbines; steam and other vapour turbines, (for other than marine propulsion), of an output not exceeding 40MW; ADD: ; ADD: Steam and vapour turbines are key components for the production of geothermal energy and co-generation.	840682 - Turbines; steam and other vapour turbines, (for other than marine propulsion), of an output not exceeding 40MW	840682 - -- Of an output not exceeding 40 MW 8406 - Steam turbines and other vapour turbines.	TRUE	yes	X; based on description	840682
119	840690		840690	1:1	Turbines; parts of steam and other vapour turbines; ADD: ; ADD: Parts and accessories of steam and vapour turbines, with the associated environmental benefits.	840690 - Turbines; parts of steam and other vapour turbines	840690 - -Parts 8406 - Steam turbines and other vapour turbines.	TRUE	yes	X; based on description	840690
120*	841011		841011	1:1	Turbines; hydraulic turbines and water wheels, of a power not exceeding 1000kW; ADD: ; ADD: Hydraulic turbines and water wheels are key components used in the production of hydro and tidal power. As a clean and renewable resource, hydro and tidal power are both	841011 - Turbines; hydraulic turbines and water wheels, of a power not exceeding 1000kW	841011 - -- Of a power not exceeding 1,000 Kw 8410 - Hydraulic turbines, water wheels, and regulators therefor.	TRUE	yes	X; based on description	841011

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					clean, renewable sources of electricity that can play a pivotal role in reducing GHG emissions and providing a reliable, constant source of electricity.						
121*	841012		841012	1:1	Turbines; hydraulic turbines and water wheels, of a power exceeding 1000kW but not exceeding 10000kW; ADD: ; ADD: Hydraulic turbines and water wheels are key components used in the production of hydro and tidal power. As a clean and renewable resource, hydro and tidal power are both clean, renewable sources of electricity that can play a pivotal role in reducing GHG emissions and providing a reliable, constant source of electricity.	841012 - Turbines; hydraulic turbines and water wheels, of a power exceeding 1000kW but not exceeding 10000kW	841012 - -- Of a power exceeding 1,000 kW but not exceeding 10,000 kW 8410 - Hydraulic turbines, water wheels, and regulators therefor.	TRUE	yes	X; based on description	841012

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
122*	841013		841013	1:1	Turbines; hydraulic turbines and water wheels, of a power exceeding 10000kW; ADD: ; ADD: Hydraulic turbines and water wheels are key components used in the production of hydro and tidal power. As a clean and renewable resource, hydro and tidal power are both clean, renewable sources of electricity that can play a pivotal role in reducing GHG emissions and providing a reliable, constant source of electricity.	841013 - Turbines; hydraulic turbines and water wheels, of a power exceeding 10000kW	841013 - -- Of a power exceeding 10,000 kW 8410 - Hydraulic turbines, water wheels, and regulators therefor.	TRUE	yes	X; based on description	841013
123*	841090		841090	1:1	Turbines; parts of hydraulic turbines and water wheels, including regulators; ADD: ; ADD: Parts and accessories of hydraulic turbines and water wheels, with the associated environmental benefits.	841090 - Turbines; parts of hydraulic turbines and water wheels, including regulators	841090 - -Parts, including regulators 8410 - Hydraulic turbines, water wheels, and regulators therefor.	TRUE	yes	X; based on description	841090

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
124	841181		841181	1:1	<p>Turbines; gas-turbines (excluding turbo-jets and turbo-propellers), of a power not exceeding 5000kW; ADD: ; ADD: Gas Turbines can be used for clean power generation, including recovered landfill gas or biogas. These turbines are also an essential component of relatively efficient</p> <p>combined-cycle power plants running on natural gas or biogas, which emit less greenhouse emissions than coal-based power.</p>	841181 - Turbines; gas-turbines (excluding turbo-jets and turbo-propellers), of a power not exceeding 5000kW	841181 - Turbines; gas-turbines (excluding turbo-jets and turbo-propellers), of a power not exceeding 5000kW	TRUE	yes	X; based on description	841181
125	841182		841182	1:1	<p>Turbines; gas-turbines (excluding turbo-jets and turbo-propellers), of a power exceeding 5000kW; ADD: ; ADD: Gas Turbines can be used for clean power generation, including recovered landfill gas or biogas. These turbines are also an essential component of relatively efficient</p> <p>combined-cycle power plants running on natural gas or biogas, which emit less</p>	841182 - Turbines; gas-turbines (excluding turbo-jets and turbo-propellers), of a power exceeding 5000kW	841182 - Turbines; gas-turbines (excluding turbo-jets and turbo-propellers), of a power exceeding 5000kW	TRUE	yes	X; based on description	841182

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					greenhouse emissions than coal-based power.						
126*	841290		841290	1:1	Engines; parts, for engines and motors of heading no. 8412; ADD: Wind turbine blades and hubs; ADD: Components of wind turbines for renewable electricity generation.	841290 - Engines; parts, for engines and motors of heading no. 8412	841290 - -Parts 8412 - Other engines and motors.	TRUE	yes	X; based on description	841290
127	841480		841480	1:1	Air or vacuum pumps, air or other gas compressors and fans; ventilating or recycling hoods incorporating a fan, whether or not fitted with filters: - Other; ADD: Refrigerant recovery units; ADD: Refrigerant recovery units can be used to recover refrigerants (including CFCs, HCFCs and HFCs) from refrigeration and air conditioning equipment, thus preventing emissions of these refrigerants to the	841480 - Pumps and compressors; for air, vacuum or gas, n.e.c. in heading no. 8414	841480 - -Other 8414 - Air or vacuum pumps, air or other gas compressors and fans; ventilating or recycling hoods incorporating a fan, whether or not fitted with filters.	TRUE	yes	X; based on description	841480

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					atmosphere. CFCs, HCFCs and HFCs are ozone-depleting substances and some are potent greenhouse gases.						
128*	841861		841861	1:1	Heat pumps other than air conditioning machines of heading 8415; ADD: Air-source heat pumps; ADD: Aerothermal heat pump utilises moderate temperatures in the ambient air to reduce the operational costs of heating and cooling systems to boost energy efficiency.	841861 - Heat pumps; other than air conditioning machines of heading no. 8415	841861 - -- Heat pumps other than air conditioning machines of heading 84.15 8418 - Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15.	TRUE	yes	X; based on description	841861
129*	841861		841861	1:1	Heat pumps other than air conditioning machines of heading 8416; ADD: Ground-source heat pumps; ADD: Ground-source heat pumps utilise the moderate temperatures in the ground to reduce the operational costs of heating and cooling systems and boost efficiency.	841861 - Heat pumps; other than air conditioning machines of heading no. 8415	841861 - -- Heat pumps other than air conditioning machines of heading 84.15 8418 - Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning	TRUE	yes	X; based on description	841861

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
							machines of heading 84.15.				
130*	841861		841861	1:1	Heat pumps other than air conditioning machines of heading 8417; ADD: Heat pumps of compression-type; ADD: Such systems transfer the heat available in land, air and water masses to either heat or cool buildings.	841861 - Heat pumps; other than air conditioning machines of heading no. 8415	841861 - -- Heat pumps other than air conditioning machines of heading 84.15 8418 - Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15.	TRUE	yes	X; based on description	841861
131*	841861		841861	1:1	Heat pumps other than air conditioning machines of heading 8418; ADD: Hydrothermal heat pumps; ADD: Waste-to-energy systems use solid waste to produce usable heat and energy	841861 - Heat pumps; other than air conditioning machines of heading no. 8415	841861 - -- Heat pumps other than air conditioning machines of heading 84.15 8418 - Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15.	TRUE	yes	X; based on description	841861

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
132	841899		841899	1:1	Parts of refrigerating or freezing equipment and heat pumps, n.e.s.; ADD: ; ADD: Parts of heat pump systems of a kind specified, with associated environmental benefits.	841899 - Refrigerating or freezing equipment; parts thereof, other than furniture	841899 - -- Other 8418 - Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15.	TRUE	yes	X; based on description	841899
133*	841919		841919	1:1	Heaters; instantaneous or storage water heaters, non-electric, other than instantaneous gas water heaters; ADD: Solar water heaters; ADD: Solar water heaters use solar thermal energy to heat water, producing no pollution or carbon emissions. Use of solar water heating displaces the burning of other, pollution- creating fuels.	841919 - Heaters; instantaneous or storage water heaters, non-electric, other than instantaneous gas water heaters	841919 - -- Other 8419 - 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.	TRUE	yes	X; based on description	841919

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
134	841939		841939	1:1	<p>Dryers: other than for agricultural products; for wood, paper pulp, paper or paperboard; ADD: Sewage sludge dryers; ADD: Sludge dryers can be cover sludge into useful green products, such as fertilisers, compost or a fuel source.</p> <p>Sludge trying significantly reduces the volume and weight of the sludge so that it is easier to recover.</p>	841939 - Dryers; for products n.e.c. in heading no. 8419, not used for domestic purposes	841939 - -- Other 8419 - 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.	TRUE	yes	X; based on description	841939

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
135	841940		841940	1:1	Distilling or rectifying plant; not used for domestic purposes; ADD: Biogas refinement equipment; ADD: Biogas refinement equipment is used to alter biogas resulting from organic matter to give it the same properties as natural gas.	841940 - Distilling or rectifying plant; not used for domestic purposes	841940 - -Distilling or rectifying plant 8419 - 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.	TRUE	yes	X; based on description	841940

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
136	841940		841940	1:1	Distilling or rectifying plant; not used for domestic purposes; ADD: Solvent recycling plants; ADD: Solvent recycling plants allows for the recovery and reuse of solvents, such as the solvents used in the printing, painting or dry cleaning industries.	841940 - Distilling or rectifying plant; not used for domestic purposes	841940 - -Distilling or rectifying plant 8419 - 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.	TRUE	yes	X; based on description	841940

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
137	841960		841960	1:1	Machinery; for liquefying air or gas, not used for domestic purposes; ADD: ; ADD: Machinery under this subheading (of a kind not including HFC/HCFCs) can be used to separate and remove pollutants through condensation.	841960 - Machinery; for liquefying air or gas, not used for domestic purposes	841960 - -Machinery for liquefying air or other gases 8419 - 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.	TRUE	yes	X; based on description	841960

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
138	841989		841989	1:1	<p>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 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>- Other machinery, plant and equipment: other; ADD: Anaerobic digestors; ADD: Anaerobic digesters break down biodegradable material to create biogas, which can be combusted to generate electricity and</p>	841989 - Machinery, plant and laboratory equipment; for treating materials by change of temperature, other than for making hot drinks or cooking or heating food	841989 - -- Other 8419 - 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.	TRUE	yes	X; based on description	841989

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					heat, or can be processed into renewable natural gas and transportation fuels.						

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
139	841989		841989	1:1	<p>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 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>- Other machinery, plant and equipment: other; ADD: Autoclaves; ADD: Autoclaves are used in the pre-disposal treatment and sterilisation of waste material, such as pathogenic hospital waste. These machines</p>	841989 - Machinery, plant and laboratory equipment; for treating materials by change of temperature, other than for making hot drinks or cooking or heating food	841989 - -- Other 8419 - 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.	TRUE	yes	X; based on description	841989

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					are able to neutralize potentially infectious agents by utilising pressurised steam and superheated water.						

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
140	841989		841989	1:1	<p>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 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>- Other machinery, plant and equipment: other; ADD: Biogas refinement equipment; ADD: Biogas refinement equipment removes contaminants from raw biogas so that it may be used effectively. Biogas reactors</p>	841989 - Machinery, plant and laboratory equipment; for treating materials by change of temperature, other than for making hot drinks or cooking or heating food	841989 - -- Other 8419 - 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.	TRUE	yes	X; based on description	841989

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					degrade organic matter to produce biogas, which can be combusted to generate electricity and heat, or can be processed into renewable natural gas and transportation fuels.						

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
141	841989		841989	1:1	<p>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 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>- Other machinery, plant and equipment: other; ADD: Refrigerant recycling and reclaiming units; ADD: Refrigerant recycling and reclaiming units can be used to recover, recycle and purify refrigerants (including</p>	841989 - Machinery, plant and laboratory equipment; for treating materials by change of temperature, other than for making hot drinks or cooking or heating food	841989 - -- Other 8419 - 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.	TRUE	yes	X; based on description	841989

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					CFCs, HCFCs and HFCs) from refrigeration and air conditioning equipment, thus preventing emissions of these refrigerants to the atmosphere.						

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
142	841989		841989	1:1	<p>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 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>- Other machinery, plant and equipment: other; ADD: Thermal desorbers; ADD: Thermal desorbers are an environmental remediation technology that utilises heat to increase the volatility of contaminants such that</p>	841989 - Machinery, plant and laboratory equipment; for treating materials by change of temperature, other than for making hot drinks or cooking or heating food	841989 - -- Other 8419 - 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.	TRUE	yes	X; based on description	841989

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					they can be removed from the solid matrix (typically soil, sludge or filter cake).						

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
143	841989		841989	1:1	<p>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 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>- Other machinery, plant and equipment: other; ADD: Drum, thermal and mechanical vapor compression evaporators; ADD: Through the transformation of vapour into liquid,</p>	841989 - Machinery, plant and laboratory equipment; for treating materials by change of temperature, other than for making hot drinks or cooking or heating food	841989 - -- Other 8419 - 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.	TRUE	yes	X; based on description	841989

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					<p>vapour compression evaporators can make reasonably clean water from any water source.</p> <p>Fluidised bed systems are commonly used to combust wastewater sludge in waste-to-energy applications.</p>						

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
144	841989		841989	1:1	<p>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 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>- Other machinery, plant and equipment: other; ADD: Condensers and cooling towers; ADD: Wet cooling towers act as highly efficient air scrubbers by collecting particles from the surrounding</p>	841989 - Machinery, plant and laboratory equipment; for treating materials by change of temperature, other than for making hot drinks or cooking or heating food	841989 - -- Other 8419 - 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.	TRUE	yes	X; based on description	841989

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					environment into the cooling water.						

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
145	841990		841990	1:1	<p>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>- Parts; ADD: Parts of 8419.19x,</p> <p>8419.39x,</p> <p>8419.40x,</p> <p>8419.60,</p> <p>8419.89x; ADD: Parts and accessories of 8419.19x, 8419.39x, 8419.40x,</p> <p>8419.60, and 8419.89x,</p>	841990 - Machinery, plant and laboratory equipment; parts of equipment for treating materials by a process involving a change of temperature	841990 - Machinery, plant and laboratory equipment; parts of equipment for treating materials by a process involving a change of temperature	TRUE	yes	X; based on description	841990

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					with the associated environmental benefits						
146	842119		842119	1:1	Centrifuges; n.e.c. in heading no. 8421, including centrifugal dryers (but not clothes-dryers); ADD: Oil skimmers; ADD: Equipment used to remove oil floating on water, such as for oil spill remediation.	842119 - Centrifuges; n.e.c. in heading no. 8421, including centrifugal dryers (but not clothes-dryers)	842119 - -- Other 8421 - Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases.	TRUE	yes	X; based on description	842119
147	842119		842119	1:1	Centrifuges; n.e.c. in heading no. 8421, including centrifugal dryers (but not clothes-dryers); ADD: Sludge dewatering centrifuges; ADD: Sludge	842119 - Centrifuges; n.e.c. in heading no. 8421, including centrifugal dryers (but not clothes-dryers)	842119 - -- Other 8421 - Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases.	TRUE	yes	X; based on description	842119

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					dewatering centrifuges are designed for solid-liquid separation.						
148	842121		842121	1:1	<p>Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus for liquids or gases:</p> <p>- Filtering or purifying machinery and apparatus for liquids: for filtering or purifying water; ADD: ; ADD: This subheading includes a wide range of essential water and wastewater treatment technologies, including UV water purifiers, ozone generators, reverse osmosis systems and filters, as well as desalination systems.</p>	842121 - Machinery; for filtering or purifying water	842121 - -- For filtering or purifying water 8421 - Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases.	TRUE	yes	X; based on description	842121
149	842139		842139	1:1	<p>Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus for liquids or gases:</p> <p>- Filtering or purifying machinery and apparatus for gases: other (excl. isotope separators and intake</p>	842139 - Machinery; for filtering or purifying gases, other than intake air filters for internal combustion engines	842139 - -- Other 8421 - Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases.	TRUE	yes	X; based on description	842139

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					air filters for internal combustion engines); ADD: ; ADD: Filtering and purifying machinery used for the removal of toxic or otherwise harmful pollutants, such as Volatile Organic Compounds, solid or liquid particles in gases.						
150	842191		842191	1:1	Centrifuges; parts thereof, including parts for centrifugal dryers; ADD: Parts of 8421.19x; ADD: Parts and accessories of 8421.19, with the associated environmental benefits.	842191 - Centrifuges; parts thereof, including parts for centrifugal dryers	842191 - -- Of centrifuges, including centrifugal dryers 8421 - Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases.	TRUE	yes	X; based on description	842191
151	842199		842199	1:1	Machinery; parts for filtering or purifying liquids or gases; ADD: Parts of 8421.21x; ADD: Parts and accessories of 8421.21, with the associated environmental benefits.	842199 - Machinery; parts for filtering or purifying liquids or gases	842199 - --- Other 8421 - Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases.	TRUE	yes	X; based on description	842199
152	842220	ex	842220	n:1	Machinery; for cleaning or drying bottles or other containers; ADD: ; ADD: Machinery used to clean and dry bottles so that they can be recycled and reused. Recycling is key to	842220 - Machinery; for cleaning or drying bottles or other containers	842220 - Machinery; for cleaning or drying bottles or other containers	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	842220

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					moving towards a circular economy (i.e. retaining resources within the economy when a product has reached its end of life, so resources can be reused and create further value).						
153	842290	ex	842290	n:1	Machinery; parts of machinery of heading no. 8422; ADD: Parts of 8422.20; ADD: Parts and accessories of 8422.20, with the associated environmental benefits.	842290 - Machinery; parts of machinery of heading no. 8422	842290 - Machinery; parts of machinery of heading no. 8422	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	842290
154	846239		846239	1:1	Machine-tools; shearing machines (including presses), (other than combined punching and shearing machines, other than numerically controlled), for working metal; ADD: Hydraulic alligator or guillotine shearing machines; ADD: Hydraulic shears can be used for cutting long lengths of recyclable metals to be further processed and are often used when the size or shape of material makes torch-cutting difficult.	846239 - Machine-tools; shearing machines (including presses), (other than combined punching and shearing machines, other than numerically controlled), for working metal	846239 - -- Other 8462 - Machine-tools (including presses) for working metal by forging, hammering or die-stamping; machine-tools (including presses) for working metal by bending, folding, straightening, flattening, shearing, punching or notching; presses for working metal or metal carbides, not specified above.	TRUE	yes	X; based on description	846239

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
155	846291		846291	1:1	Machine-tools; presses for working metal or metal carbides, n.e.c. in heading no. 8462, hydraulic presses; ADD: Compactors for metals; ADD: Metal compactors are essentially in the management of waste and the recycling process by compressing and compacting scrap metal.	846291 - Machine-tools; presses for working metal or metal carbides, n.e.c. in heading no. 8462, hydraulic presses	846291 - -- Hydraulic presses 8462 - Machine-tools (including presses) for working metal by forging, hammering or die-stamping; machine-tools (including presses) for working metal by bending, folding, straightening, flattening, shearing, punching or notching; presses for working metal or metal carbides, not specified above.	TRUE	yes	X; based on description	846291
156	847410		847410	1:1	Machines; for sorting, screening, separating or washing earth, stone, ores or other mineral substances; ADD: ; ADD: Sorting machines used to wash and sort mineral substances, so that they can be recycled and reused. Recycling is key to moving towards a circular economy (i.e. retaining resources within the economy when a product has reached its end of life, so resources can be reused and create further value).	847410 - Machines; for sorting, screening, separating or washing earth, stone, ores or other mineral substances	847410 - -Sorting, screening, separating or washing machines 8474 - Machinery for sorting, screening, separating, washing, crushing, grinding, mixing or kneading earth, stone, ores or other mineral substances, in solid (including powder or paste) form; machinery for agglomerating, shaping or moulding solid mineral fuels, ceramic paste, unhardened cements, plastering	TRUE	yes	X; based on description	847410

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
							materials or other mineral products in powder or paste form; machines for forming foundry moulds of sand.				
157	847420		847420	1:1	Machines; for crushing or grinding earth, stone, ores or other mineral substances; ADD: ; ADD: Crushing/grinding machines are used for solid and hazardous waste management for recycling. Recycling is key to moving towards a circular economy (i.e. retaining resources within the economy when a product has reached its end of life, so resources can be reused and create further value).	847420 - Machines; for crushing or grinding earth, stone, ores or other mineral substances	847420 - -Crushing or grinding machines 8474 - Machinery for sorting, screening, separating, washing, crushing, grinding, mixing or kneading earth, stone, ores or other mineral substances, in solid (including powder or paste) form; machinery for agglomerating, shaping or moulding solid mineral fuels, ceramic paste, unhardened cements, plastering materials or other mineral products in powder or paste form; machines for forming foundry moulds of sand.	TRUE	yes	X; based on description	847420

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
158	847439		847439	1:1	Machines; for mixing or kneading mineral substances, excluding concrete mixers and machines for mixing mineral substances with bitumen; ADD: ; ADD: Mixing/kneading machine used to prepare waste for treatment/recycling or during treatment/recycling. Recycling is key to moving towards a circular economy (i.e. retaining resources within the economy when a product has reached its end of life, so resources can be reused and create further value).	847439 - Machines; for mixing or kneading mineral substances, excluding concrete mixers and machines for mixing mineral substances with bitumen	847439 - -- Other 8474 - Machinery for sorting, screening, separating, washing, crushing, grinding, mixing or kneading earth, stone, ores or other mineral substances, in solid (including powder or paste) form; machinery for agglomerating, shaping or moulding solid mineral fuels, ceramic paste, unhardened cements, plastering materials or other mineral products in powder or paste form; machines for forming foundry moulds of sand.	TRUE	yes	X; based on description	847439
159	847490		847490	1:1	Machinery for sorting, screening, separating, washing, crushing, grinding, mixing or kneading earth, stone, ores or other mineral substances, in solid (including powder or paste) form; machinery for agglomerating, shaping or moulding solid mineral fuels, ceramic paste, unhardened cements, plastering materials or other mineral products	847490 - Machines, for sorting, screening, separating, washing, crushing etc mineral substances, for agglomerating, shaping or moulding solid fuels, ceramic pastes etc, for forming foundry moulds of sand; parts	847490 - -Parts 8474 - Machinery for sorting, screening, separating, washing, crushing, grinding, mixing or kneading earth, stone, ores or other mineral substances, in solid (including powder or paste) form; machinery for agglomerating, shaping or moulding solid mineral fuels, ceramic paste,	TRUE	yes	X; based on description	847490

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					<p>in powder or paste form; machines for forming foundry moulds of sand:</p> <p>- Parts; ADD: Parts of 8474.10</p> <p>and 8474.20; ADD: Parts and accessories of 8474.10 and 8474.20, with the associated environmental benefits.</p>		unhardened cements, plastering materials or other mineral products in powder or paste form; machines for forming foundry moulds of sand.				
160	847751		847751	1:1	<p>Machinery; for moulding or retreading pneumatic tyres or for moulding or otherwise forming inner tubes; ADD: For retreading pneumatic tyres; ADD: This equipment is used for recycling waste tyres.</p> <p>Recycled goods are key to moving towards a circular economy (i.e. retaining resources within the economy when a product has reached its end of life, so resources can be reused and create further value), as opposed to a linear economy model where resources are extracted, turned into a</p>	847751 - Machinery; for moulding or retreading pneumatic tyres or for moulding or otherwise forming inner tubes	847751 - -- For moulding or retreading pneumatic tyres or for moulding or otherwise forming inner tubes	TRUE	yes	X; based on description	847751

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					product, and disposed after use. Recycling extends the life of natural resources, reduces the generation of mining waste, reduces greenhouse gas emissions, diminishes pressures on disposal facilities, and preserves landfill capacity.						
161	847989		847989	1:1	<p>Machines and mechanical appliances; having individual functions, n.e.c. or included in this chapter; ADD: Possum, stoat, and rat traps; ADD: Possums, stoats, and rats are known predators to indigenous bird species and are a major cause for the decline of many indigenous bird populations.</p> <p>These predators can also have a significant impact on ecosystems. Possum, stoat, and rat traps therefore play an</p>	847989 - Machines and mechanical appliances; having individual functions, n.e.c. or included in this chapter	847989 - -- Other 8479 - Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter.	TRUE	yes	X; based on description	847989

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					important role in curbing the impact these pests have in many ecosystems and supporting the revival of indigenous bird species and ecosystems.						
162	847990		847990	1:1	Machines and mechanical appliances; parts, of those having individual functions; ADD: Parts of 8479.89; ADD: Parts and accessories of 8479.89, with the associated environmental benefits.	847990 - Machines and mechanical appliances; parts, of those having individual functions	847990 - -Parts 8479 - Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter.	TRUE	yes	X; based on description	847990
163	848110		848110	1:1	Taps, cocks, valves and similar appliances for pipes, boiler shells, tanks, vats or the like, including pressure-reducing valves and thermostatically controlled valves: - Pressure-reducing valves; ADD: Thermostatic radiator valves; ADD: Thermostatic radiator valves are self-	848110 - Valves; pressure reducing, for pipes, boiler shells, tanks, vats or the like	848110 - -Pressure-reducing valves	TRUE	yes	X; based on description	848110

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					regulating valves fitted to hot water heating system radiators, to control the temperature of a room by changing the flow of hot water to the radiator. Because these valves only use heat when needed, they can reduce heating bills by up to 17% a year. Also used in heat pump systems.						
164*	848210		848210	1:1	Ball bearings; ADD: Ball bearings, of a kind used in wind turbines, of a diameter not less than 2150mm but not exceeding 4000mm; ADD: Parts and accessories of wind turbines. Special thread inserts connect the blades to the blade bearing. The blade bearing is a ball bearing which is bolted to the rotor hub.	848210 - Ball bearings	848210 - -Ball bearings	TRUE	yes	X; based on description	848210
165*	848230		848230	1:1	Bearings; spherical roller bearings; ADD: Spherical roller bearings, of a kind used in wind turbines, of a diameter not less than 1150mm but not exceeding 4000mm; ADD: Parts and accessories of wind	848230 - Bearings; spherical roller bearings	848230 - -Spherical roller bearings	TRUE	yes	X; based on description	848230

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					turbines. Special thread inserts connect the blades to the blade bearing. The blade bearing is a ball bearing which is bolted to the rotor hub.						
166	848330		848330	1:1	Bearing housings for machinery, not incorporating ball or roller bearings; plain shaft bearings for machinery; ADD: ; ADD: Water lubricated bearings, which represent an environmentally preferable alternative to oil lubricated bearings.	848330 - Bearing housings, not incorporating ball or roller bearings and plain shaft bearings	848330 - -Bearing housings, not incorporating ball or roller bearings; plain shaft bearings	TRUE	yes	X; based on description	848330
167*	848340		848340	1:1	Gears and gearing for machinery (excl. toothed wheels, chain sprockets and other transmission elements presented separately); ball or roller screws; gear boxes and other speed changers, incl. torque converters; ADD: ; ADD: Of a kind used in renewable energy plant & machinery.	848340 - Gears and gearing; (not toothed wheels, chain sprockets and other transmission elements presented separately); ball or roller screws; gear boxes and other speed changers, including torque converters	848340 - -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	TRUE	yes	X; based on description	848340
168*	848360		848360	1:1	Clutches and shaft couplings, incl. universal joints, for machinery; ADD: ; ADD:	848360 - Clutches and shaft couplings (including universal joints)	848360 - -Clutches and shaft couplings (including universal joints)	TRUE	yes	X; based on description	848360

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Of a kind used in renewable energy plant & machinery.						
169*	848610		848610	1:1	Machines and apparatus of a kind used solely or principally for the manufacture of semiconductor boules or wafers; ADD: For the manufacture of photovoltaic wafers; ADD: Supports the manufacture and production of photovoltaic wafers, which helps produce renewable energy through the photovoltaic effect.	848610 - Machines and apparatus of a kind used solely or principally for the manufacture of semiconductor boules or wafers	848610 - -Machines and apparatus for the manufacture of boules or wafers	TRUE	yes	X; based on description	848610
170*	848620		848620	1:1	Machines and apparatus of a kind used solely or principally for the manufacture of semiconductor devices or of electronic integrated circuits; ADD: For the manufacture of photovoltaic cells, modules and panels; ADD: Supports the manufacture and production of solar cells and modules, which convert the energy of light directly	848620 - Machines and apparatus of a kind used solely or principally for the manufacture of semiconductor devices or of electronic integrated circuits	848620 - -Machines and apparatus for the manufacture of semiconductor devices or of electronic integrated circuits	TRUE	yes	X; based on description	848620

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					into electricity through the photovoltaic effect.						
171*	848690		848690	1:1	Machines and apparatus of heading 8486; parts and accessories; ADD: Parts of 8486.10 and 8486.20; ADD: Parts of 8486.10 and 8486.20, with the associated environmental benefits.	848690 - Machines and apparatus of heading 8486; parts and accessories	848690 - -Parts and accessories	TRUE	yes	X; based on description	848690
172	850131		850131	1:1	DC motors of an output > 37,5 W but <= 750 W and DC generators of an output <= 750 W; ADD: ; ADD: Energy saving motors and fans, designed using less raw materials than traditional inefficient motors and other electronically commutated motors.	850131 - Electric motors and generators; DC, of an output not exceeding 750W	850131 - -- Of an output not exceeding 750 W 8501 - Electric motors and generators (excluding generating sets).	TRUE	yes	X; based on description	850131
173	850132		850132	1:1	DC motors and DC generators of an output > 750 W but <= 75 kW; ADD: ; ADD: Solar trackers, motors and generators, of a	850132 - Electric motors and generators; DC, of an output exceeding 750W but not exceeding 75kW	850132 - -- Of an output exceeding 750 W but not exceeding 75 kW 8501 - Electric motors and	TRUE	yes	X; based on description	850132

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					kind used in solar power plants.		generators (excluding generating sets).				
174	850133		850133	1:1	DC motors and DC generators of an output > 75 kW but <= 375 kW; ADD: ; ADD: Solar trackers, motors and generators, of a kind used in solar power plants.	850133 - Electric motors and generators; DC, of an output exceeding 75kW but not exceeding 375kW	850133 - -- Of an output exceeding 75 kW but not exceeding 375 kW 8501 - Electric motors and generators (excluding generating sets).	TRUE	yes	X; based on description	850133
175	850151		850151	1:1	Electric motors; AC motors, multi-phase, of an output not exceeding 750W; ADD: Motors that meet or exceed the requirements of efficiency class IE4 of the Norm IEC 60034-30-1 (2014); ADD: Three phase motors, when compared to single phase motors, have higher efficiency and power factors and are more reliable since they do not have starting switches or capacitors. The rotor current and rotor losses are insignificant at no load in a three-phase motor. Single-phase motors	850151 - Electric motors; AC motors, multi-phase, of an output not exceeding 750W	850151 - -- Of an output not exceeding 750 W 8501 - Electric motors and generators (excluding generating sets).	TRUE	yes	X; based on description	850151

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					have appreciable rotor current and rotor losses at no load. For a given breakdown torque, the single-phase motor requires considerably more flux and more active material than the equivalent three-phase motor.						
176	850152		850152	1:1	<p>Electric motors; AC motors, multi-phase, of an output exceeding 750W but not exceeding 75kW; ADD: Motors that meet or exceed the requirements of efficiency class IE4 of the Norm IEC 60034-30-1</p> <p>(2014); ADD: Three phase motors, when compared to single phase motors, have higher efficiency and power factors and are more reliable since they do not have</p>	850152 - Electric motors; AC motors, multi-phase, of an output exceeding 750W but not exceeding 75kW	850152 - -- Of an output exceeding 750 W but not exceeding 75 kW 8501 - Electric motors and generators (excluding generating sets).	TRUE	yes	X; based on description	850152

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					<p>starting switches or capacitors. The rotor current and rotor losses are insignificant at no load in a three-phase motor.</p> <p>Single-phase motors have appreciable rotor current and rotor losses at no load. For a given breakdown torque, the single-phase motor requires considerably more flux and more active material than the equivalent three-phase motor.</p>						
177	850161		850161	1:1	Generators; AC generators, (alternators), of an output not exceeding 75kVA; ADD: ; ADD: AC generators are used for the conversion of clean and renewable energy to usable electricity, including for hydro-power generation.	850161 - Generators; AC generators, (alternators), of an output not exceeding 75kVA	850161 - -- Of an output not exceeding 75 kVA 8501 - Electric motors and generators (excluding generating sets).	TRUE	yes	X; based on description	850161
178	850162		850162	1:1	Electric generators; AC generators, (alternators), of an output exceeding 75kVA but not exceeding 375kVA; ADD: ; ADD: AC generators are used for the conversion of clean	850162 - Electric generators; AC generators, (alternators), of an output exceeding 75kVA but not exceeding 375kVA	850162 - -- Of an output exceeding 75 kVA but not exceeding 375 kVA 8501 - Electric motors and generators (excluding generating sets).	TRUE	yes	X; based on description	850162

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and renewable energy to usable electricity, including for hydro-power generation.						
179	850163		850163	1:1	Electric generators; AC generators, (alternators), of an output exceeding 375kVA but not exceeding 750kVA; ADD: ; ADD: AC generators are used for the conversion of clean and renewable energy to usable electricity, including for hydro-power generation.	850163 - Electric generators; AC generators, (alternators), of an output exceeding 375kVA but not exceeding 750kVA	850163 - -- Of an output exceeding 375 kVA but not exceeding 750 kVA 8501 - Electric motors and generators (excluding generating sets).	TRUE	yes	X; based on description	850163
180	850164		850164	1:1	Electric generators; AC generators, (alternators), of an output exceeding 750kVA; ADD: ; ADD: AC generators are used for the conversion of clean and renewable energy to usable electricity, including for hydro- power generation.	850164 - Electric generators; AC generators, (alternators), of an output exceeding 750kVA	850164 - -- Of an output exceeding 750 kVA 8501 - Electric motors and generators (excluding generating sets).	TRUE	yes	X; based on description	850164
181*	850231		850231	1:1	Electric generating sets; wind-powered, (excluding those with spark-ignition or compression-ignition internal combustion piston engines); ADD: ; ADD: Components of	850231 - Electric generating sets; wind-powered, (excluding those with spark-ignition or compression-ignition internal	850231 - -- Wind-powered 8502 - Electric generating sets and rotary converters.	TRUE	yes	X; based on description	850231

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					wind turbines for renewable electricity generation.	combustion piston engines)					
182*	850239		850239	1:1	Electric generating sets; (excluding those with spark-ignition or compression-ignition internal combustion piston engines), other than wind powered; ADD: ; ADD: This subheading covers a wide range of generating sets used in clean and renewable energy applications.	850239 - Electric generating sets; (excluding those with spark-ignition or compression-ignition internal combustion piston engines), other than wind powered	850239 - -- Other 8502 - Electric generating sets and rotary converters.	TRUE	yes	X; based on description	850239
183	850300		850300	1:1	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02.; ADD: Parts of 8501.51x, 8501.52x, 8501.61, 8501.62, 8501.63, 8501.64, 8502.31, 8502.39; ADD: Parts and accessories of 850151, 850152, 850161, 850162, 850163, 850164, 850231, 850239 with	850300 - Electric motors and generators; parts suitable for use solely or principally with the machines of heading no. 8501 or 8502	850300 - Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02.	TRUE	yes	X; based on description	850300

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					the associated environmental benefits.						
184	850421	ex	850421	n:1	Liquid dielectric transformers, having a power handling capacity <= 650 kVA; ADD: ; ADD: Of a kind used in renewable energy plant & machinery	850421 - Electrical transformers; liquid dielectric, having a power handling capacity not exceeding 650kVA	850421 - Electrical transformers; liquid dielectric, having a power handling capacity not exceeding 650kVA	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	850421
185	850422	ex	850422	n:1	Electrical transformers; liquid dielectric, having a power handling capacity exceeding 650kVA but not exceeding 10,000kVA; ADD: Amorphous-core transformers; ADD: Amorphous material has great advantage in reducing no load loss which is generated during operation. By using Amorphous metal for core part, loss can be reduced significantly. It is possible to achieve	850422 - Electrical transformers; liquid dielectric, having a power handling capacity exceeding 650kVA but not exceeding 10,000kVA	850422 - Electrical transformers; liquid dielectric, having a power handling capacity exceeding 650kVA but not exceeding 10,000kVA	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	850422

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					high efficiency and save a huge amount of energy in many years.						
186	850423	ex	850423	n:1	Liquid dielectric transformers, having a power handling capacity > 10.000 kVA; ADD: ; ADD: Of a kind used in renewable energy plant & machinery	850423 - Electrical transformers; liquid dielectric, having a power handling capacity exceeding 10,000kVA	850423 - Electrical transformers; liquid dielectric, having a power handling capacity exceeding 10,000kVA	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	850423
187	850431	ex	850431	n:1	Transformers having a power handling capacity <= 1 kVA (excl. liquid dielectric transformers); ADD: ; ADD: Of a kind used in renewable energy plant & machinery	850431 - Electrical transformers; n.e.c. in item no. 8504.2, having a power handling capacity not exceeding 1kVA	850431 - Electrical transformers; n.e.c. in item no. 8504.2, having a power handling capacity not exceeding 1kVA	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	850431
188	850432	ex	850432	n:1	Transformers, having a power handling capacity > 1 kVA but <= 16 kVA (excl. liquid dielectric transformers); ADD: ; ADD: Of a kind used in renewable energy plant & machinery	850432 - Transformers; n.e.c. in item no. 8504.2, having a power handling capacity exceeding 1kVA but not exceeding 16kVA	850432 - Transformers; n.e.c. in item no. 8504.2, having a power handling capacity exceeding 1kVA but not exceeding 16kVA	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	850432

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
189	850433	ex	850433	n:1	Transformers; n.e.c. in item no. 8504.2, having a power handling capacity exceeding 16kVA but not exceeding 500kVA; ADD: Amorphous-core transformers; ADD: Amorphous material has great advantage in reducing no load loss which is generated during operation. By using Amorphous metal for core part, loss can be reduced significantly. It is possible to achieve high efficiency and save a huge amount of energy in many years.	850433 - Transformers; n.e.c. in item no. 8504.2, having a power handling capacity exceeding 16kVA but not exceeding 500kVA	850433 - Transformers; n.e.c. in item no. 8504.2, having a power handling capacity exceeding 16kVA but not exceeding 500kVA	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	850433
190	850433	ex	850433	n:1	Transformers; n.e.c. in item no. 8504.2, having a power handling capacity exceeding 16kVA but not exceeding 500kVA; ADD: Superconducting transformers; ADD: Superconductors are materials that conduct electricity with 100 per cent efficiency, losing nothing to resistance at temperatures above the boiling point of liquid nitrogen. Extraordinary superconducting and	850433 - Transformers; n.e.c. in item no. 8504.2, having a power handling capacity exceeding 16kVA but not exceeding 500kVA	850433 - Transformers; n.e.c. in item no. 8504.2, having a power handling capacity exceeding 16kVA but not exceeding 500kVA	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	850433

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					magnetic properties for wide-ranging technological applications including power transmission.						
191	850434	ex	850434	n:1	Transformers; n.e.c. in item no. 8504.2, having a power handling capacity exceeding 500kVA; ADD: Amorphous-core transformers; ADD: Amorphous material has great advantage in reducing no load loss which is generated during operation. By using Amorphous metal for core part, loss can be reduced significantly. It is possible to achieve high efficiency and save a huge amount of energy in many years.	850434 - Transformers; n.e.c. in item no. 8504.2, having a power handling capacity exceeding 500kVA	850434 - Transformers; n.e.c. in item no. 8504.2, having a power handling capacity exceeding 500kVA	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	850434

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
192	850434	ex	850434	n:1	<p>Transformers; n.e.c. in item no. 8504.2, having a power handling capacity exceeding 500kVA; ADD: Superconducting transformers; ADD: High Temperature superconducting transformers not only eliminate the electrical resistance in the wires but also allow the construction of useful transformers without a core.</p> <p>The core will generate heat as the magnetic domains are constantly flipped in the alternating field of the windings of the transformer, and this is the biggest energy loss in most practical transformers. In a superconducting transformer the primary dissipates no power except for a small electromagnetic radiation term, so near 100% efficiency can be obtained with no core at all.</p>	850434 - Transformers; n.e.c. in item no. 8504.2, having a power handling capacity exceeding 500kVA	850434 - Transformers; n.e.c. in item no. 8504.2, having a power handling capacity exceeding 500kVA	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	850434

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
193	850440	ex	850440	n:1	Electrical static converters; ADD: ; ADD: Static converters convert solar energy into electricity and can be used to convert DC current from the photovoltaic/solar cells into conventional AC electricity which can run many household and office products. They are also used in other renewable energy generation.	850440 - Electrical static converters	850440 - Electrical static converters	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	850440
194	850490	ex	850490	n:1	Electrical transformers, static converters and inductors; parts thereof; ADD: Parts of 8504.40; ADD: Parts and accessories of 8504.40, with the associated environmental benefits.	850490 - Electrical transformers, static converters and inductors; parts thereof	850490 - Electrical transformers, static converters and inductors; parts thereof	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	850490
195	850590		850590	1:1	Magnets; electro-magnets, holding devices and parts n.e.c. in heading no. 8505; ADD: ; ADD: Electro magnets can be used to remove metal content from waste for recycling.	850590 - Magnets; electro-magnets, holding devices and parts n.e.c. in heading no. 8505	850590 - -Other, including parts 8505 - Electro-magnets; permanent magnets and articles intended to become permanent magnets after magnetisation; electro-magnetic or permanent magnet chucks, clamps and similar holding devices; electro-magnetic couplings, clutches and	TRUE	yes	X; based on description	850590

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
							brakes; electro-magnetic lifting heads.				
196	850680		850680	1:1	Primary cells and primary batteries, electric (excl. spent and those of silver oxide, mercuric oxide, manganese dioxide, lithium and air- zinc); ADD: ; ADD: Compared with dry cell batteries, they can be recharged or reused, thereby reducing waste.	850680 - Cells and batteries; primary, (other than manganese dioxide, mercuric oxide, silver oxide, lithium or air-zinc)	850680 - -Other primary cells and primary batteries	TRUE	yes	X; based on description	850680
197	850720		850720	1:1	Lead acid accumulators (excl. spent and starter batteries); ADD: ; ADD: Provides for energy storage in off-grid PV systems. Are designed to be discharged down to 50 per cent or more without damage so that they can supply power over a long period of time.	850720 - Electric accumulators; lead-acid, (other than for starting piston engines), including separators, whether or not rectangular (including square)	850720 - -Other lead-acid accumulators 8506 - Primary cells and primary batteries.	TRUE	yes	X; based on description	850720
198	850730		850730	1:1	Nickel-cadmium accumulators (excl. spent); ADD: ; ADD: Rechargeable batteries, used as alternative to lead-acid batteries in emergency	850730 - Electric accumulators; nickel-cadmium, including separators, whether or not rectangular (including square)	850730 - -Nickel-cadmium 8506 - Primary cells and primary batteries.	TRUE	yes	X; based on description	850730

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					systems and similar due to low discharge rate when not in use.						
199	850740		850740	1:1	Nickel-iron accumulators (excl. spent); ADD: ; ADD: Compared with dry cell batteries, they can be recharged or reused, thereby reducing waste. In case of automotive use, superior energy saving can be realised due to high efficiency.	850740 - Electric accumulators; nickel-iron, including separators, whether or not rectangular (including square)	850740 - -Nickel-iron 8506 - Primary cells and primary batteries.	TRUE	yes	X; based on description	850740
200	850750		850750	1:1	Nickel-metal hydride accumulators (excl. spent); ADD: ; ADD: Compared with dry cell batteries, they can be recharged or reused, thereby reducing waste. In case of automotive use, superior energy saving can be realised due to high efficiency.	850750 - Electric accumulators; nickel-metal hydride, including separators, whether or not rectangular (including square)	850750 - -Nickel-metal hydride 8506 - Primary cells and primary batteries.	TRUE	yes	X; based on description	850750
201	850760		850760	1:1	Lithium-ion accumulators (excl. spent); ADD: ; ADD: Acting as a stabiliser for renewable and other energy, lithium-ion batteries serve as an energy storage source. Energy storage system will play a critical role in	850760 - Electric accumulators; lithium-ion, including separators, whether or not rectangular (including square)	850760 - -Lithium-ion 8506 - Primary cells and primary batteries.	TRUE	yes	X; based on description	850760

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					the low- carbon society, with the function of stable power output, peak demand shift and backup power source during outages.						
202	850780		850780	1:1	Electric accumulators; other than lead-acid, nickel-cadmium, nickel- iron, nickel- metal hydride and lithium-ion, including separators, whether or not rectangular (including square); ADD: Of a capacity no less than 100 kw; ADD: Advanced storage batteries allow utilities to easily shift loads between peak and off-peak periods, thus significantly reducing network losses and enhancing energy efficiency.	850780 - Electric accumulators; other than lead-acid, nickel-cadmium, nickel-iron, nickel- metal hydride and lithium-ion, including separators, whether or not rectangular (including square)	850780 - -Other accumulators 8506 - Primary cells and primary batteries.	TRUE	yes	X; based on description	850780
203	850790		850790	1:1	Plates, separators and other parts of electric accumulators, n.e.s.; ADD: ; ADD: Batteries essential to wind and solar power production. They allow plant and machinery to accumulate electricity during periods of strong winds/sunshine. They	850790 - Electric accumulators; parts n.e.c. in heading no. 8507	850790 - -Parts 8506 - Primary cells and primary batteries.	TRUE	yes	X; based on description	850790

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					facilitate utility-level integration of renewable energy and support the smart grid.						
204	851210		851210	1:1	<p>Lighting or visual signalling equipment; electrical, of a kind used on bicycles, excluding articles of heading no.</p> <p>8539; ADD: ; ADD: Bicycles and their parts provide an environmentally friendly, low-carbon mode of transportation, which can contribute to lowering GHG emissions in the transport sector as well as reducing air pollution.</p>	851210 - Lighting or visual signalling equipment; electrical, of a kind used on bicycles, excluding articles of heading no. 8539	851210 - -Lighting or visual signalling equipment of a kind used on bicycles	TRUE	yes	X; based on description	851210
205	851220		851220	1:1	<p>Electrical lighting or signalling equipment (excluding articles of heading 85.39), windscreen wipers, defrosters and demisters, of a kind used for cycles or motor vehicles:</p> <p>- Other lighting or visual signalling equipment;</p>	851220 - Lighting or visual signalling equipment; electrical, of a kind used on motor vehicles (excluding articles of heading no. 8539)	851220 - -Other lighting or visual signalling equipment	TRUE	yes	X; based on description	851220

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					ADD: Where the light fixture solely has integrated LEDs, and the fixture emits light solely from these sources; ADD: LED lighting is more energy-efficient than incandescent and fluorescent lighting with consequent impact on energy use and GHG emissions as well.						
206	851310		851310	1:1	Lamps; portable, electric, designed to function by their own source of energy (excluding lighting equipment of heading no. 8512); ADD: Portable electric lamps, other than torches and flashlights, primarily powered by solar photovoltaic cells.; ADD: LED lighting is more energy-efficient than incandescent and fluorescent lighting with consequent impact on energy use and GHG emissions as well.	851310 - Lamps; portable, electric, designed to function by their own source of energy (excluding lighting equipment of heading no. 8512)	851310 - -Lamps 8513 - Portable electric lamps designed to function by their own source of energy (for example, dry batteries, accumulators, magnetos), other than lighting equipment of heading 85.12.	TRUE	yes	X; based on description	851310

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
207	851629		851629	1:1	Electric space-heating and soil-heating apparatus (excl. storage heating radiators); ADD: ; ADD: Of a kind used to heat in order to disinfect or remove organic compounds (e.g., pesticides, hydrocarbons) from soil and to dry contaminated soil prior to treatment processes.	851629 - Heating apparatus; electric soil heating apparatus and space heating apparatus (excluding storage heating radiators)	851629 - -- Other 8516 - Electric instantaneous or storage water heaters and immersion heaters; electric space heating apparatus and soil heating apparatus; electro-thermic hair-dressing apparatus (for example, hair dryers, hair curlers, curling tong heaters) and hand dryers; electric smoothing irons; other electro-thermic appliances of a kind used for domestic purposes; electric heating resistors, other than those of heading 85.45.	TRUE	yes	X; based on description	851629
208	851762	ex	851762	n:1	Communication apparatus (excluding telephone sets or base stations); machines for the reception, conversion and transmission or regeneration of voice, images or other data, including switching and routing apparatus; ADD: Energy usage data transmitters; ADD: These transmitters send energy usage data	851762 - Communication apparatus (excluding telephone sets or base stations); machines for the reception, conversion and transmission or regeneration of voice, images or other data, including switching	851762 - Communication apparatus (excluding telephone sets or base stations); machines for the reception, conversion and transmission or regeneration of voice, images or other data, including switching and routing apparatus	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	851762

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					from appliances to a central monitoring unit that enables households/businesses to better track their energy consumption, while facilitating better communication between energy consumers and utilities.	and routing apparatus					
209	852691		852691	1:1	Radio navigational aid apparatus; ADD: Global Navigation Satellite System (GNSS) apparatus; ADD: Instruments and appliances necessary for measuring the ozone layer, landslide, ground subsidence and to monitor, measure and assist planning for natural risks such as earthquakes, cyclones, tsunamis etc.	852691 - Radio navigational aid apparatus	852691 - -- Radio navigational aid apparatus	TRUE	yes	X; based on description	852691
210	852852		852851	1:n	Monitors; other than cathode-ray tube; capable of directly connecting to and designed for use with an automatic data processing machine of heading 84.71; ADD: LED screen computer monitors; ADD: LED monitors are	852852 - Monitors; other than cathode-ray tube; capable of directly connecting to and designed for use with an automatic data processing machine of heading 84.71	852851 - Monitors other than cathode-ray tube; of a kind solely or principally used in an automatic data processing system of heading 84.71	FALSE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	852851

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					significantly more energy-efficient compared to LCD and other types of monitors, with consequent impact on energy use and GHG emissions as well.						
210	852852	ex	852859	n:n	Monitors; other than cathode-ray tube; capable of directly connecting to and designed for use with an automatic data processing machine of heading 84.71; ADD: LED screen computer monitors; ADD: LED monitors are significantly more energy-efficient compared to LCD and other types of monitors, with consequent impact on energy use and GHG emissions as well.	852852 - Monitors; other than cathode-ray tube; capable of directly connecting to and designed for use with an automatic data processing machine of heading 84.71	852859 - Monitors other than cathode-ray tube; other than of a kind solely or principally used in an automatic data processing system of heading 84.71	FALSE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	852859
211	852859	ex	852859	n:1	Monitors other than cathode-ray tube; n.e.c. in subheading 8528.52, whether or not colour; ADD: LED screen computer monitors; ADD: LED monitors are significantly more energy-efficient compared to LCD and other types of monitors,	852859 - Monitors other than cathode-ray tube; n.e.c. in subheading 8528.52, whether or not colour	852859 - Monitors other than cathode-ray tube; other than of a kind solely or principally used in an automatic data processing system of heading 84.71	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	852859

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					with consequent impact on energy use and GHG emissions as well.						
212	852910	ex	852910	n:1	Reception and transmission apparatus; aerials and aerial reflectors of all kinds and parts suitable for use therewith; ADD: For use solely or principally with global navigation satellite systems (GNSS) apparatus; ADD: Instruments and appliances necessary for measuring the ozone layer, landslide, ground subsidence and to monitor, measure and assist planning for natural risks such as earthquakes, cyclones, tsunamis etc.	852910 - Reception and transmission apparatus; aerials and aerial reflectors of all kinds and parts suitable for use therewith	852910 - Reception and transmission apparatus; aerials and aerial reflectors of all kinds and parts suitable for use therewith	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	852910

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
213	852990	ex	852990	n:1	Parts suitable for use solely or principally with transmission and reception apparatus for radio-broadcasting or television, television cameras, digital cameras, video camera recorders, radar apparatus, radio navigational aid apparatus or radio remote control apparatus, monitors and projectors, n.e.s. (excl. for aerials and aerial reflectors of all kinds); ADD: ; ADD: GNSS apparatus, which can receive more than dual- frequency signals from the same GNSS satellite or which can receive only single- frequency signals with ground plane structure.	852990 - Reception and transmission apparatus; for use with the apparatus of heading no. 8525 to 8528, excluding aerials and aerial reflectors	852990 - Reception and transmission apparatus; for use with the apparatus of heading no. 8525 to 8528, excluding aerials and aerial reflectors	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	852990
214	853010	ex	853010	n:1	Electrical signalling, safety or traffic control equipment for railways or tramways (excl. mechanical or electromechanical equipment of heading 8608); ADD: ; ADD: Transport infrastructure for rail supports a cleaner transport mode than alternatives,	853010 - Signalling, safety or traffic control equipment; for railways or tramways (excluding those of heading no. 8608)	853010 - Signalling, safety or traffic control equipment; for railways or tramways (excluding those of heading no. 8608)	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	853010

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					particularly with the electrification of rail.						
215	853080	ex	853080	n:1	Electrical signalling, safety or traffic control equipment (excl. that for railways or tramways and mechanical or electromechanical equipment of heading 8608); ADD: ; ADD: Transport infrastructure for rail supports a cleaner transport mode than alternatives, particularly with the electrification of rail.	853080 - Signalling, safety or traffic control equipment; for roads, inland waterways, parking facilities, port installations or airfields (excluding those of heading no. 8608)	853080 - Signalling, safety or traffic control equipment; for roads, inland waterways, parking facilities, port installations or airfields (excluding those of heading no. 8608)	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	853080
216	853090	ex	853090	n:1	Parts of electrical signalling, safety or traffic control equipment, n.e.s.; ADD: ; ADD: Transport infrastructure for rail supports a cleaner transport mode than alternatives, particularly with the electrification of rail.	853090 - Signalling apparatus; parts of safety, traffic control equipment for railways, tramways, roads, inland waterways, airfields, parking facilities, port instalments (excluding those of heading no. 8608)	853090 - Signalling apparatus; parts of safety, traffic control equipment for railways, tramways, roads, inland waterways, airfields, parking facilities, port instalments (excluding those of heading no. 8608)	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	853090

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
217	853120	ex	853120	n:1	Signalling apparatus; electric, sound or visual, indicator panels incorporating liquid crystal devices (LCD) or light-emitting diodes (LED), excluding those of heading no. 8512 or 8530; ADD: Energy monitoring unit; ADD: Energy monitoring units (EMUs) display real-time energy use, pricing and billing data, and other utility- mandated information, which is communicated to the EMU from a linked smart meter.	853120 - Signalling apparatus; electric, sound or visual, indicator panels incorporating liquid crystal devices (LCD) or light-emitting diodes (LED), excluding those of heading no. 8512 or 8530	853120 - Signalling apparatus; electric, sound or visual, indicator panels incorporating liquid crystal devices (LCD) or light emitting diodes (LED), excluding those of heading no. 8512 or 8530	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	853120
218	853120	ex	853120	n:1	Signalling apparatus; electric, sound or visual, indicator panels incorporating liquid crystal devices (LCD) or light-emitting diodes (LED), excluding those of heading no. 8512 or 8531; ADD: Incorporating light emitting diodes (LED); ADD: LED lighting is more energy- efficient than incandescent and fluorescent lighting with consequent impact on energy use and GHG emissions as well.	853120 - Signalling apparatus; electric, sound or visual, indicator panels incorporating liquid crystal devices (LCD) or light-emitting diodes (LED), excluding those of heading no. 8512 or 8530	853120 - Signalling apparatus; electric, sound or visual, indicator panels incorporating liquid crystal devices (LCD) or light emitting diodes (LED), excluding those of heading no. 8512 or 8530	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	853120

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
219	853120	ex	853120	n:1	Signalling apparatus; electric, sound or visual, indicator panels incorporating liquid crystal devices (LCD) or light-emitting diodes (LED), excluding those of heading no. 8512 or 8532; ADD: Fume hood monitors; ADD: These monitors are used in conjunction with fume hoods to monitor air flow out of toxic environments.	853120 - Signalling apparatus; electric, sound or visual, indicator panels incorporating liquid crystal devices (LCD) or light-emitting diodes (LED), excluding those of heading no. 8512 or 8530	853120 - Signalling apparatus; electric, sound or visual, indicator panels incorporating liquid crystal devices (LCD) or light emitting diodes (LED), excluding those of heading no. 8512 or 8530	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	853120
220	853190	ex	853190	n:1	Signalling apparatus; parts of the electric, sound or visual apparatus of heading no. 8531; ADD: Parts of 8531.20x; ADD: Parts and accessories of 8531.20x, with the associated environmental benefits.	853190 - Signalling apparatus; parts of the electric, sound or visual apparatus of heading no. 8531	853190 - Signalling apparatus; parts of the electric, sound or visual apparatus of heading no. 8531	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	853190

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
221	853650	ex	853650	n:1	<p>Electrical apparatus; switches n.e.c. in heading no. 8536, for a voltage not exceeding 1000 volts; ADD: Differential pressure switches; motion sensor switches; ADD: Differential pressure switches are key elements for smart-grids and the management of intermittent energy from renewables.</p> <p>Motion sensor switches contribute to energy efficiency in homes and buildings through automatic shut-off in the absence of room or hallway occupants. Similar to variable frequency drives, intelligent motor controllers monitor the activity of electric motors and match the output of the motor with the demand for that output. This application of intelligent electronics enhances opportunities for energy savings in motor-driven systems.</p>	853650 - Electrical apparatus; switches n.e.c. in heading no. 8536, for a voltage not exceeding 1000 volts	853650 - Electrical apparatus; switches n.e.c. in heading no. 8536, for a voltage not exceeding 1000 volts	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	853650

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
222	853931		853931	1:1	Lamps; discharge, (excluding ultra-violet), fluorescent, hot cathode; ADD: ; ADD: Fluorescent lamps use less energy and produce less heat per lumen than incandescent bulbs, reducing energy consumption.	853931 - Lamps; discharge, (excluding ultra-violet), fluorescent, hot cathode	853931 - -- Fluorescent, hot cathode 8539 - Electric filament or discharge lamps, including sealed beam lamp units and ultra-violet or infra-red lamps; arc-lamps.	TRUE	yes	X; based on description	853931
223	853949		853949	1:1	Lamps; ultra-violet or infra-red lamps, (excluding arc-lamps); ADD: UV lamps; ADD: UV disinfection lamps are an essential component of UV disinfection systems. UV light is extremely effective in killing and eliminating bacteria, yeasts, viruses, moulds and other harmful organisms. UV systems can be used in conjunction with sediment and carbon filters to create pure drinking water.	853949 - Lamps; ultra-violet or infra-red lamps, (excluding arc-lamps)	853949 - -- Other 8539 - Electric filament or discharge lamps, including sealed beam lamp units and ultra-violet or infra-red lamps; arc-lamps.	TRUE	yes	X; based on description	853949

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
224	853950	ex	854370	n:1	Electric filament or discharge lamps, including sealed beam lamp units and ultra-violet or infra-red lamps; arc-lamps; light emitting diode lamps: - Light emitting diode lamps; ADD: Light-emitting diode (LED) lamps (bulbs); ADD: LED lighting is more energy- efficient than incandescent and fluorescent lighting with consequent impact on energy use and GHG emissions as well.	853950 - Lamps; light-emitting diode (LED) lamps	854370 - Electrical machines and apparatus; having individual functions, not specified or included elsewhere in this chapter, n.e.c. in heading no. 8543	FALSE	no	EX; 853950 is present in HS2017 and absent from HS2012; in HS2017 this product was included in 8539 4-digit group, so it seems logical to include it under HS2012'th 853949 - -- Other 8539 - Electric filament or discharge lamps, including sealed beam lamp units and ultra-violet or infra-red lamps; arc-lamps. rather then under 854370 - -Other machines and apparatus 8543 - Electrical machines and apparatus, having individual functions, not specified or included elsewhere in this Chapter.	853949
225	854110		854110	1:1	Electrical apparatus; diodes, other than photosensitive or light-emitting diodes (LED); ADD: ; ADD: These products are designed to reduce energy consumption.	854110 - Electrical apparatus; diodes, other than photosensitive or light-emitting diodes (LED)	854110 - -Diodes, other than photosensitive or light emitting diodes	TRUE	yes	X; based on description	854110
226	854121		854121	1:1	Electrical apparatus; transistors, (other than photosensitive), with a dissipation rate of less than 1W; ADD: ; ADD: These products are designed to reduce energy consumption.	854121 - Electrical apparatus; transistors, (other than photosensitive), with a dissipation rate of less than 1W	854121 - -- With a dissipation rate of less than 1 W	TRUE	yes	X; based on description	854121

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
227	854129		854129	1:1	Electrical apparatus; transistors, (other than photosensitive), with a dissipation rate of 1W or more; ADD: ; ADD: Converters are used in wind energy generation. Frequency converters decouple the rotational speed of the rotor from the grid frequency allowing variable speed operation.	854129 - Electrical apparatus; transistors, (other than photosensitive), with a dissipation rate of 1W or more	854129 - -- Other	TRUE	yes	X; based on description	854129
228	854130		854130	1:1	Electrical apparatus; thyristors, diacs and triacs, other than photosensitive devices; ADD: ; ADD: These products are designed to reduce energy consumption.	854130 - Electrical apparatus; thyristors, diacs and triacs, other than photosensitive devices	854130 - -Thyristors, diacs and triacs, other than photosensitive devices	TRUE	yes	X; based on description	854130
229*	854140		854140	1:1	Electrical apparatus; photosensitive, including photovoltaic cells, whether or not assembled in modules or made up into panels, light-emitting diodes (LED); ADD: Photovoltaic cells whether or not assembled in modules or made up into panels / NZL ex-out: Photovoltaic cells, modules and panels.; ADD: Solar cells, modules and panels use light energy from the sun to generate	854140 - Electrical apparatus; photosensitive, including photovoltaic cells, whether or not assembled in modules or made up into panels, light-emitting diodes (LED)	854140 - - Photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes	TRUE	yes	X; based on description	854140

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					renewable electricity through the photovoltaic effect.						
230	854190		854190	1:1	Electrical apparatus; parts for diodes, transistors and similar semiconductor devices and photosensitive semiconductor devices; ADD: Parts of 8541.10, 8541.21, 8541.29, 8541.30, 8541.40; ADD: Parts and accessories of 8541.10, 8541.21, 8541.29, 8541.30, 8541.40, with the associated environmental benefits.	854190 - Electrical apparatus; parts for diodes, transistors and similar semiconductor devices and photosensitive semiconductor devices	854190 - -Parts	TRUE	yes	X; based on description	854190

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	842211	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	842211 - -- Of the household type 8422 - Dish washing machines; machinery for cleaning or drying bottles or other containers; machinery for filling, closing, sealing or labelling bottles, cans, boxes, bags or other containers; machinery for capsuling bottles, jars, tubes and similar containers; other packing or wrapping machinery (including heat-shrink wrapping machinery); machinery for aerating beverages.	FALSE	no	based on description HS2012	NA
231	854231	ex	842219	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	842219 - -- Other 8422 - Dish washing machines; machinery for cleaning or drying bottles or other containers; machinery for filling, closing, sealing or labelling bottles, cans, boxes, bags or other containers; machinery for	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.		capsuling bottles, jars, tubes and similar containers; other packing or wrapping machinery (including heat-shrink wrapping machinery); machinery for aerating beverages.				
231	854231	ex	842220	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	842220 - -Machinery for cleaning or drying bottles or other containers 8422 - Dish washing machines; machinery for cleaning or drying bottles or other containers; machinery for filling, closing, sealing or labelling bottles, cans, boxes, bags or other containers; machinery for capsuling bottles, jars, tubes and similar containers; other packing or wrapping machinery (including heat-shrink wrapping machinery); machinery for aerating beverages.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	842230	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	842230 - -Machinery for filling, closing, sealing, or labelling bottles, cans, boxes, bags or other containers; machinery for capsuling bottles, jars, tubes and similar containers; machinery for aerating beverages 8422 - Dish washing machines; machinery for cleaning or drying bottles or other containers; machinery for filling, closing, sealing or labelling bottles, cans, boxes, bags or other containers; machinery for capsuling bottles, jars, tubes and similar containers;	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
							other packing or wrapping machinery (including heat-shrink wrapping machinery); machinery for aerating beverages.				
231	854231	ex	842240	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for HelioStat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The HelioStat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	842240 - -Other packing or wrapping machinery (including heat-shrink wrapping machinery) 8422 - Dish washing machines; machinery for cleaning or drying bottles or other containers; machinery for filling, closing, sealing or labelling bottles, cans, boxes, bags or other containers; machinery for capsuling bottles, jars, tubes and similar containers; other packing or wrapping machinery (including heat-shrink wrapping	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.		machinery); machinery for aerating beverages.				
231	854231	ex	842290	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	842290 - -Parts 8422 - Dish washing machines; machinery for cleaning or drying bottles or other containers; machinery for filling, closing, sealing or labelling bottles, cans, boxes, bags or other containers; machinery for capsuling bottles, jars, tubes and similar containers; other packing or wrapping machinery (including heat-shrink wrapping machinery); machinery for aerating beverages.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	843110	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	843110 - -Of machinery of heading 84.25 8425 - Pulley tackle and hoists other than skip hoists; winches and capstans; jacks	FALSE	no	based on description HS2012	NA
231	854231	ex	843120	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	843120 - -Of machinery of heading 84.27 8427 - Fork-lift trucks; other works trucks fitted with lifting or handling equipment.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.						
231	854231	ex	843131	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	843131 - -- Of lifts, skip hoists or escalators 8431 - Parts suitable for use solely or principally with the machinery of headings 84.25 to 84.30.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	843139	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	843139 - -- Other 8431 - Parts suitable for use solely or principally with the machinery of headings 84.25 to 84.30.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	843141	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	843141 - -- Buckets, shovels, grabs and grips	FALSE	no	based on description HS2012	NA
231	854231	ex	843142	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	843142 - -- Bulldozer or angledozer blades	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.						
231	854231	ex	843143	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	843143 - -- Parts for boring or sinking machinery of subheading 8430.41 or 8430.49	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	843149	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	843149 - -- Other 8431 - Parts suitable for use solely or principally with the machinery of headings 84.25 to 84.30.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	844311	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	844311 - -- Offset printing machinery, reel-fed	FALSE	no	based on description HS2012	NA
231	854231	ex	844312	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	844312 - -- Offset printing machinery, sheet-fed, office type (using sheets with one side not exceeding 22 cm and the other side not exceeding 36 cm in the unfolded state)	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.						
231	854231	ex	844313	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	844313 - -- Other offset printing machinery	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	844314	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	844314 - -- Letterpress printing machinery, reel fed, excluding flexographic printing	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	844315	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	844315 - -- Letterpress printing machinery, other than reel fed, excluding flexographic printing	FALSE	no	based on description HS2012	NA
231	854231	ex	844316	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	844316 - -- Flexographic printing machinery	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.						
231	854231	ex	844317	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	844317 - -- Gravure printing machinery	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	844319	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	844319 - -- Other 8443 - Printing machinery used for printing by means of plates, cylinders and other printing components of heading 84.42; other printers, copying machines and facsimile machines, whether or not combined; parts and accessories thereof.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	844331	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	844331 - -- Machines which perform two or more of the functions of printing, copying or facsimile transmission, capable of connecting to an automatic data processing machine or to a network	FALSE	no	based on description HS2012	NA
231	854231	ex	844332	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	844332 - -- Other, capable of connecting to an automatic data processing machine or to a network 8443 - Printing machinery used for printing by means of plates, cylinders and other printing components of heading 84.42; other	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.		printers, copying machines and facsimile machines, whether or not combined; parts and accessories thereof.				
231	854231	ex	844339	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	844339 - -- Other 8443 - Printing machinery used for printing by means of plates, cylinders and other printing components of heading 84.42; other printers, copying machines and facsimile machines, whether or not combined; parts and accessories thereof.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	844391	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	844391 - -- Parts and accessories of printing machinery used for printing by means of plates, cylinders and other printing components of heading 84.42	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	844399	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	844399 - -- Other 8443 - Printing machinery used for printing by means of plates, cylinders and other printing components of heading 84.42; other printers, copying machines and facsimile machines, whether or not combined; parts and accessories thereof.	FALSE	no	based on description HS2012	NA
231	854231	ex	845011	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	845011 - -- Fully-automatic machines 8450 - Household or laundry-type washing machines, including machines which both wash and dry.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.						
231	854231	ex	845012	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	845012 - -- Other machines, with built-in centrifugal drier 8450 - Household or laundry-type washing machines, including machines which both wash and dry.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	845019	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	845019 - -- Other 8450 - Household or laundry-type washing machines, including machines which both wash and dry.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	845020	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	845020 - -Machines, each of a dry linen capacity exceeding 10 kg 8450 - Household or laundry-type washing machines, including machines which both wash and dry.	FALSE	no	based on description HS2012	NA
231	854231	ex	845090	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	845090 - -Parts 8450 - Household or laundry-type washing machines, including machines which both wash and dry.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.						
231	854231	ex	846610	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	846610 - -Tool holders and self-opening dieheads 8466 - Parts and accessories suitable for use solely or principally with the machines of headings 84.56 to 84.65, including work or tool holders, self-opening dieheads, dividing heads and other special attachments for machine-tools; tool holders for any type of tool for working in the hand.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	846620	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	846620 - -Work holders 8466 - Parts and accessories suitable for use solely or principally with the machines of headings 84.56 to 84.65, including work or tool holders, self-opening dieheads, dividing heads and other special attachments for machine-tools; tool holders for any type of tool for working in the hand.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	846630	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for HelioStat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The HelioStat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	846630 - -Dividing heads and other special attachments for machine-tools 8466 - Parts and accessories suitable for use solely or principally with the machines of headings 84.56 to 84.65, including work or tool holders, self-opening dieheads, dividing heads and other special attachments for machine-tools; tool holders for any type of tool for working in the hand.	FALSE	no	based on description HS2012	NA
231	854231	ex	846691	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	846691 - -- For machines of heading 84.64 8466 - Parts and accessories suitable for use solely or principally with the machines of headings 84.56 to 84.65, including work or tool holders, self-opening dieheads, dividing heads and other	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.		special attachments for machine-tools; tool holders for any type of tool for working in the hand.				
231	854231	ex	846692	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	846692 - -- For machines of heading 84.65 8466 - Parts and accessories suitable for use solely or principally with the machines of headings 84.56 to 84.65, including work or tool holders, self-opening dieheads, dividing heads and other special attachments for machine-tools; tool holders for any type of tool for working in the hand.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	846693	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	846693 - -- For machines of headings 84.56 to 84.61 8466 - Parts and accessories suitable for use solely or principally with the machines of headings 84.56 to 84.65, including work or tool holders, self-opening dieheads, dividing heads and other special attachments for machine-tools; tool holders for any type of tool for working in the hand.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	846694	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Helio-stat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Helio-stat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	846694 - -- For machines of heading 84.62 or 84.63 8466 - Parts and accessories suitable for use solely or principally with the machines of headings 84.56 to 84.65, including work or tool holders, self-opening dieheads, dividing heads and other special attachments for machine-tools; tool holders for any type of tool for working in the hand.	FALSE	no	based on description HS2012	NA
231	854231	ex	847310	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	847310 - -Parts and accessories of the machines of heading 84.69 8469 - Typewriters other than printers of heading 84.43; word-processing machines.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.						
231	854231	ex	847321	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	847321 - -- Of the electronic calculating machines of subheading 8470.10, 8470.21 or 8470.29	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	847329	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	847329 - -- Other	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	847330	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	847330 - -Parts and accessories of the machines of heading 84.71	FALSE	no	based on description HS2012	NA
231	854231	ex	847340	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	847340 - -Parts and accessories of the machines of heading 84.72	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.						
231	854231	ex	847350	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	847350 - -Parts and accessories equally suitable for use with machines of two or more of the headings 84.69 to 84.72	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	847621	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	847621 - -- Incorporating heating or refrigerating devices 8476 - Automatic goods-vending machines (for example, postage stamp, cigarette, food or beverage machines), including money-changing machines.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	847629	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	847629 - -- Other 8476 - Automatic goods-vending machines (for example, postage stamp, cigarette, food or beverage machines), including money-changing machines.	FALSE	no	based on description HS2012	NA
231	854231	ex	847681	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	847681 - -- Incorporating heating or refrigerating devices 8476 - Automatic goods-vending machines (for example, postage stamp, cigarette, food or beverage machines), including money-changing machines.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.						
231	854231	ex	847689	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	847689 - -- Other 8476 - Automatic goods-vending machines (for example, postage stamp, cigarette, food or beverage machines), including money-changing machines.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	847690	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	847690 - -Parts 8476 - Automatic goods-vending machines (for example, postage stamp, cigarette, food or beverage machines), including money-changing machines.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	850410	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	850410 - -Ballasts for discharge lamps or tubes	FALSE	no	based on description HS2012	NA
231	854231	ex	850421	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	850421 - -- Having a power handling capacity not exceeding 650 kVA	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.						
231	854231	ex	850422	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	850422 - -- Having a power handling capacity exceeding 650 kVA but not exceeding 10,000 kVA	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	850423	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	850423 - -- Having a power handling capacity exceeding 10,000 kVA	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	850431	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	850431 - -- Having a power handling capacity not exceeding 1 kVA	FALSE	no	based on description HS2012	NA
231	854231	ex	850432	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	850432 - -- Having a power handling capacity exceeding 1 kVA but not exceeding 16 kVA	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.						
231	854231	ex	850433	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	850433 - -- Having a power handling capacity exceeding 16 kVA but not exceeding 500 kVA	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	850434	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	850434 - -- Having a power handling capacity exceeding 500 kVA	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	850440	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	850440 - -Static converters	FALSE	no	based on description HS2012	NA
231	854231	ex	850450	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	850450 - -Other inductors	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.						
231	854231	ex	850490	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	850490 - -Parts	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	851711	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	851711 - -- Line telephone sets with cordless handsets	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	851712	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	851712 - -- Telephones for cellular networks or for other wireless networks	FALSE	no	based on description HS2012	NA
231	854231	ex	851718	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	851718 - -- Other	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.						
231	854231	ex	851761	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	851761 - -- Base stations	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	851762	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	851762 - -- Machines for the reception, conversion and transmission or regeneration of voice, images or other data, including switching and routing apparatus	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	851769	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	851769 - -- Other	FALSE	no	based on description HS2012	NA
231	854231	ex	851770	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	851770 - -Parts	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.						
231	854231	ex	851810	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	851810 - - Microphones and stands therefor	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	851821	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	851821 - -- Single loudspeakers, mounted in their enclosures	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	851822	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	851822 - -- Multiple loudspeakers, mounted in the same enclosure	FALSE	no	based on description HS2012	NA
231	854231	ex	851829	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	851829 - -- Other	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.						
231	854231	ex	851830	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	851830 - - Headphones and earphones, whether or not combined with a microphone, and sets consisting of a microphone and one or more loudspeakers	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	851840	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	851840 - -Audio-frequency electric amplifiers	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	851850	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	851850 - -Electric sound amplifier sets	FALSE	no	based on description HS2012	NA
231	854231	ex	851890	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	851890 - -Parts	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.						
231	854231	ex	852210	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	852210 - -Pick-up cartridges 8522 - Parts and accessories suitable for use solely or principally with the apparatus of headings 85.19 or 85.21.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	852290	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	852290 - -Other 8522 - Parts and accessories suitable for use solely or principally with the apparatus of headings 85.19 or 85.21.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	852910	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	852910 - -Aerials and aerial reflectors of all kinds; parts suitable for use therewith 8529 - Parts suitable for use solely or principally with the apparatus of headings 85.25 to 85.28.	FALSE	no	based on description HS2012	NA
231	854231	ex	852990	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	852990 - -Other 8529 - Parts suitable for use solely or principally with the apparatus of headings 85.25 to 85.28.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.						
231	854231	ex	853010	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	853010 - - Equipment for railways or tramways 8530 - Electrical signalling, safety or traffic control equipment for railways, tramways, roads, inland waterways, parking facilities, port installations or airfields (other than those of heading 86.08).	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	853080	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	853080 - -Other equipment 8530 - Electrical signalling, safety or traffic control equipment for railways, tramways, roads, inland waterways, parking facilities, port installations or airfields (other than those of heading 86.08).	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	853090	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	853090 - -Parts 8530 - Electrical signalling, safety or traffic control equipment for railways, tramways, roads, inland waterways, parking facilities, port installations or airfields (other than those of heading 86.08).	FALSE	no	based on description HS2012	NA
231	854231	ex	853110	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	853110 - -Burglar or fire alarms and similar apparatus 8531 - Electric sound or visual signalling apparatus (for example, bells, sirens, indicator panels, burglar or fire alarms), other than those of heading 85.12 or 85.30.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.						
231	854231	ex	853120	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	853120 - -Indicator panels incorporating liquid crystal devices (LCD) or light emitting diodes (LED) 8531 - Electric sound or visual signalling apparatus (for example, bells, sirens, indicator panels, burglar or fire alarms), other than those of heading 85.12 or 85.30.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	853180	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	853180 - -Other apparatus 8531 - Electric sound or visual signalling apparatus (for example, bells, sirens, indicator panels, burglar or fire alarms), other than those of heading 85.12 or 85.30.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	853190	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	853190 - -Parts 8531 - Electric sound or visual signalling apparatus (for example, bells, sirens, indicator panels, burglar or fire alarms), other than those of heading 85.12 or 85.30.	FALSE	no	based on description HS2012	NA
231	854231	ex	853510	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	853510 - -Fuses 8535 - Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits (for example, switches, fuses, lightning arresters, voltage limiters, surge	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.		suppressors, plugs and other connectors, junction boxes), for a voltage exceeding 1,000 volts.				
231	854231	ex	853521	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	853521 - -- For a voltage of less than 72.5 kV 8535 - Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits (for example, switches, fuses, lightning arresters, voltage limiters, surge suppressors, plugs and other connectors, junction boxes), for a voltage exceeding 1,000 volts.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	853529	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Helio-stat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Helio-stat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	853529 - -- Other 8535 - Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits (for example, switches, fuses, lightning arresters, voltage limiters, surge suppressors, plugs and other connectors, junction boxes), for a voltage exceeding 1,000 volts.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	853530	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	853530 - -Isolating switches and make-and-break switches 8535 - Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits (for example, switches, fuses, lightning arresters, voltage limiters, surge suppressors, plugs and other connectors, junction boxes), for a voltage exceeding 1,000 volts.	FALSE	no	based on description HS2012	NA
231	854231	ex	853540	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	853540 - -Lightning arresters, voltage limiters and surge suppressors 8535 - Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits (for example, switches,	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.		fuses, lightning arresters, voltage limiters, surge suppressors, plugs and other connectors, junction boxes), for a voltage exceeding 1,000 volts.				
231	854231	ex	853590	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	853590 - -Other 8535 - Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits (for example, switches, fuses, lightning arresters, voltage limiters, surge suppressors, plugs and other connectors, junction boxes), for a voltage exceeding 1,000 volts.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	853610	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Helio-stat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Helio-stat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	853610 - -Fuses 8535 - Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits (for example, switches, fuses, lightning arresters, voltage limiters, surge suppressors, plugs and other connectors, junction boxes), for a voltage exceeding 1,000 volts.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	853620	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	853620 - -Automatic circuit breakers 8535 - Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits (for example, switches, fuses, lightning arresters, voltage limiters, surge suppressors, plugs and other connectors, junction boxes), for a voltage exceeding 1,000 volts.	FALSE	no	based on description HS2012	NA
231	854231	ex	853630	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	853630 - -Other apparatus for protecting electrical circuits 8535 - Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits (for example, switches, fuses, lightning	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.		arresters, voltage limiters, surge suppressors, plugs and other connectors, junction boxes), for a voltage exceeding 1,000 volts.				
231	854231	ex	853641	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	853641 - -- For a voltage not exceeding 60 V 8535 - Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits (for example, switches, fuses, lightning arresters, voltage limiters, surge suppressors, plugs and other connectors, junction boxes), for a voltage exceeding 1,000 volts.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	853649	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Helio-stat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Helio-stat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	853649 - -- Other 8535 - Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits (for example, switches, fuses, lightning arresters, voltage limiters, surge suppressors, plugs and other connectors, junction boxes), for a voltage exceeding 1,000 volts.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	853650	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	853650 - -Other switches 8535 - Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits (for example, switches, fuses, lightning arresters, voltage limiters, surge suppressors, plugs and other connectors, junction boxes), for a voltage exceeding 1,000 volts.	FALSE	no	based on description HS2012	NA
231	854231	ex	853661	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	853661 - -- Lamp-holders 8535 - Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits (for example, switches, fuses, lightning arresters, voltage limiters, surge	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.		suppressors, plugs and other connectors, junction boxes), for a voltage exceeding 1,000 volts.				
231	854231	ex	853669	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	853669 - -- Other 8535 - Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits (for example, switches, fuses, lightning arresters, voltage limiters, surge suppressors, plugs and other connectors, junction boxes), for a voltage exceeding 1,000 volts.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	853670	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Helio-stat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Helio-stat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	853670 - - Connectors for optical fibres, optical fibre bundles or cables 8535 - Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits (for example, switches, fuses, lightning arresters, voltage limiters, surge suppressors, plugs and other connectors, junction boxes), for a voltage exceeding 1,000 volts.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	853690	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	853690 - -Other apparatus 8535 - Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits (for example, switches, fuses, lightning arresters, voltage limiters, surge suppressors, plugs and other connectors, junction boxes), for a voltage exceeding 1,000 volts.	FALSE	no	based on description HS2012	NA
231	854231	ex	853710	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	853710 - -For a voltage not exceeding 1,000 V 8537 - 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	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.		electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17.				
231	854231	ex	853720	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	853720 - -For a voltage exceeding 1,000 V 8537 - 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.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	853810	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	853810 - -Boards, panels, consoles, desks, cabinets and other bases for the goods of heading 85.37, not equipped with their apparatus	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	853890	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	853890 - -Other	FALSE	no	based on description HS2012	NA
231	854231		854231	1:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	854231

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.						
231	854231	ex	854310	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	854310 - -Particle accelerators	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	854320	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	854320 - -Signal generators	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	854330	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	854330 - -Machines and apparatus for electroplating, electrolysis or electrophoresis	FALSE	no	based on description HS2012	NA
231	854231	ex	854370	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	854370 - -Other machines and apparatus	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.						
231	854231	ex	854390	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	854390 - -Parts	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	854810	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	854810 - -Waste and scrap of primary cells, primary batteries and electric accumulators; spent primary cells, spent primary batteries and spent electric accumulators	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	854890	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	854890 - -Other	FALSE	no	based on description HS2012	NA
231	854231	ex	902511	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	902511 - -- Liquid-filled, for direct reading 9025 - Hydrometers and similar floating instruments, thermometers, pyrometers, barometers, hygrometers and psychrometers, recording or not, and	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.		any combination of these instruments.				
231	854231	ex	902519	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	902519 - -- Other 9025 - Hydrometers and similar floating instruments, thermometers, pyrometers, barometers, hygrometers and psychrometers, recording or not, and any combination of these instruments.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	902580	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	902580 - -Other instruments 9025 - Hydrometers and similar floating instruments, thermometers, pyrometers, barometers, hygrometers and psychrometers, recording or not, and any combination of these instruments.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	902590	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	902590 - -Parts and accessories 9025 - Hydrometers and similar floating instruments, thermometers, pyrometers, barometers, hygrometers and psychrometers, recording or not, and any combination of these instruments.	FALSE	no	based on description HS2012	NA
231	854231	ex	902610	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	902610 - -For measuring or checking the flow or level of liquids 9026 - Instruments and apparatus for measuring or checking the flow, level, pressure or other variables of liquids or gases (for example, flow meters, level	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.		gauges, manometers, heat meters), excluding instruments and apparatus of heading 90.14, 90.15, 90.28 or 90.32.				
231	854231	ex	902620	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	902620 - -For measuring or checking pressure 9026 - Instruments and apparatus for measuring or checking the flow, level, pressure or other variables of liquids or gases (for example, flow meters, level gauges, manometers, heat meters), excluding instruments and apparatus of heading 90.14, 90.15, 90.28 or 90.32.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	902680	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	902680 - -Other instruments or apparatus 9026 - Instruments and apparatus for measuring or checking the flow, level, pressure or other variables of liquids or gases (for example, flow meters, level gauges, manometers, heat meters), excluding instruments and apparatus of heading 90.14, 90.15, 90.28 or 90.32.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	902690	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	902690 - -Parts and accessories 9026 - Instruments and apparatus for measuring or checking the flow, level, pressure or other variables of liquids or gases (for example, flow meters, level gauges, manometers, heat meters), excluding instruments and apparatus of heading 90.14, 90.15, 90.28 or 90.32.	FALSE	no	based on description HS2012	NA
231	854231	ex	903010	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	903010 - - Instruments and apparatus for measuring or detecting ionising radiations	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.						
231	854231	ex	903020	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	903020 - - Oscilloscopes and oscillographs	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	903031	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	903031 - -- Multimeters without a recording device	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	903032	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	903032 - -- Multimeters with a recording device	FALSE	no	based on description HS2012	NA
231	854231	ex	903033	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	903033 - -- Other, without a recording device	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.						
231	854231	ex	903039	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	903039 - -- Other, with a recording device	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	903040	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	903040 - -Other instruments and apparatus, specially designed for telecommunications (for example, cross-talk meters, gain measuring instruments, distortion factor meters, psophometers)	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	903082	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	903082 - -- For measuring or checking semiconductor wafers or devices	FALSE	no	based on description HS2012	NA
231	854231	ex	903084	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	903084 - -- Other, with a recording device	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.						
231	854231	ex	903089	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	903089 - -- Other	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	903090	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	903090 - -Parts and accessories	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	903110	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	903110 - -Machines for balancing mechanical parts	FALSE	no	based on description HS2012	NA
231	854231	ex	903120	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	903120 - -Test benches	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.						
231	854231	ex	903141	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	903141 - -- For inspecting semiconductor wafers or devices or for inspecting photomasks or reticles used in manufacturing semiconductor devices	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	903149	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	903149 - -- Other	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	903180	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	903180 - -Other instruments, appliances and machines	FALSE	no	based on description HS2012	NA
231	854231	ex	903190	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	903190 - -Parts and accessories	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.						
231	854231	ex	903210	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	903210 - - Thermostats	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	903220	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	903220 - -Manostats	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	903281	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	903281 - -- Hydraulic or pneumatic	FALSE	no	based on description HS2012	NA
231	854231	ex	903289	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	903289 - -- Other	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.						
231	854231	ex	903290	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	903290 - -Parts and accessories	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	903300	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	903300 - Parts and accessories (not specified or included elsewhere in this Chapter) for machines, appliances, instruments or apparatus of Chapter 90.	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	930510	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	930510 - -Of revolvers or pistols	FALSE	no	based on description HS2012	NA
231	854231	ex	930520	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	930520 - -Of shotguns or rifles of heading 93.03	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.						
231	854231	ex	930591	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	930591 - -- Of military weapons of heading 93.01	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	930599	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	930599 - -- Other	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	930621	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	930621 - -- Cartridges	FALSE	no	based on description HS2012	NA
231	854231	ex	930629	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	930629 - -- Other	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.						
231	854231	ex	930630	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	930630 - -Other cartridges and parts thereof	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	930690	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	930690 - -Other	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	950420	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	950420 - -Articles and accessories for billiards of all kinds	FALSE	no	based on description HS2012	NA
231	854231	ex	950430	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	950430 - -Other games, operated by coins, banknotes, bank cards, tokens or by any other means of payment, other than automatic bowling alley equipment	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.						
231	854231	ex	950440	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits ; ADD: With antenna, designed solely or principally for Heliostat Control Units ; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV) , which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	950440 - -Playing cards	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					and monitoring of the CSPV power station.						
231	854231	ex	950450	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for Heliostat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The Heliostat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	950450 - -Video game consoles and machines, other than those of subheading 9504.30	FALSE	no	based on description HS2012	NA

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
231	854231	ex	950490	n:n	Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits; ADD: With antenna, designed solely or principally for HelioStat Control Units; ADD: These products are used in Concentrated Solar Photovoltaic Systems (CSPV), which convert sunlight into electricity for on-site use or for distribution through the electric grid. The HelioStat Control Unit provides management and monitoring of the CSPV power station.	854231 - Electronic integrated circuits; processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	950490 - -Other	FALSE	no	based on description HS2012	NA
232	854330	ex	854330	n:1	Electrical machines and apparatus; for electroplating, electrolysis or electrophoresis; ADD: Electrolysers; ADD: Electrolysers are used to produce hydrogen through electrolysis. Electrolysis is a method of separating elements by pushing an electric current through a	854330 - Electrical machines and apparatus; for electroplating, electrolysis or electrophoresis	854330 - Electrical machines and apparatus; for electroplating, electrolysis or electrophoresis	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	854330

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					compound to obtain hydrogen. Hydrogen is a key enabler for the development of widespread renewable energy technologies that are cleaner and more efficient.						
233	854390	ex	854390	n:1	Electrical machines and apparatus; parts of the electrical goods of heading no. 8543; ADD: Parts of 8543.30x; ADD: Parts and accessories of 8543.30x, with the associated environmental benefits.	854390 - Electrical machines and apparatus; parts of the electrical goods of heading no. 8543	854390 - Electrical machines and apparatus; parts of the electrical goods of heading no. 8543	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	854390
234	854460		854460	1:1	Electric conductors, for a voltage > 1.000 V, insulated, n.e.s.; ADD: ; ADD: High temperature superconducting (HTS) cables which carry electrical currents with effectively zero resistance at low temperatures.	854460 - Insulated electric conductors; for a voltage exceeding 1000 volts	854460 - -Other electric conductors, for a voltage exceeding 1,000 V	TRUE	yes	X; based on description	854460
235	860110		860110	1:1	Rail locomotives; powered from an external source of electricity; ADD: ; ADD: Trains and trams as mass transport system are a mode of sustainable mobility and have lower CO2 emissions than other	860110 - Rail locomotives; powered from an external source of electricity	860110 - -Powered from an external source of electricity	TRUE	yes	X; based on description	860110

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					transport modes such as cars.						
236	860120		860120	1:1	Rail locomotives powered by electric accumulators; ADD: ; ADD: Transport infrastructure for rail supports a cleaner transport mode than alternatives, particularly with the electrification of rail.	860120 - Rail locomotives; powered by electric accumulators	860120 - -Powered by electric accumulators	TRUE	yes	X; based on description	860120
237	860310		860310	1:1	Railway or tramway coaches, vans and trucks; self-propelled, powered from an external source of electricity (excluding those of heading no. 8604); ADD: ; ADD: Trains and trams as mass transport system are a mode of sustainable mobility and have lower CO2 emissions than other transport modes such as cars, particularly with the electrification of rail.	860310 - Railway or tramway coaches, vans and trucks; self-propelled, powered from an external source of electricity (excluding those of heading no. 8604)	860310 - -Powered from an external source of electricity	TRUE	yes	X; based on description	860310

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
238	860500		860500	1:1	<p>Railway or tramway coaches; passenger coaches, luggage vans, post office coaches and other special purpose railway or tramway coaches, not self-propelled (excluding those of heading no. 8604); ADD: ; ADD: Trains and trams as mass transport system are a mode of sustainable mobility and have lower CO2 emissions than other transport modes such as cars, particularly with the electrification of rail.</p>	860500 - Railway or tramway coaches; passenger coaches, luggage vans, post office coaches and other special purpose railway or tramway coaches, not self-propelled (excluding those of heading no. 8604)	860500 - Railway or tramway passenger coaches, not self-propelled; luggage vans, post office coaches and other special purpose railway or tramway coaches, not self-propelled (excluding those of heading 86.04).	TRUE	yes	X; based on description	860500
239	860630		860630	1:1	<p>Railway or tramway self- discharging goods vans and wagons (excl. tank wagons and the like and insulated or refrigerated goods vans and wagons); ADD: ; ADD: Transport infrastructure for rail supports a cleaner transport mode than alternatives, particularly with the electrification of rail.</p>	860630 - Railway or tramway goods vans and wagons; self-discharging, not self-propelled, excluding those of item no. 8606.10	860630 - -Self-discharging vans and wagons, other than those of subheading 8606.10	TRUE	yes	X; based on description	860630

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
240	860691		860691	1:1	Railway or tramway goods vans and wagons, covered and closed (excl. self-discharging goods vans and wagons and tank wagons and the like); ADD: ; ADD: Transport infrastructure for rail supports a cleaner transport mode than alternatives, particularly with the electrification of rail.	860691 - Railway or tramway goods vans and wagons; covered and closed, not self-propelled	860691 - -- Covered and closed	TRUE	yes	X; based on description	860691
241	860692		860692	1:1	Railway or tramway goods vans and wagons, open, with non-removable sides of a height > 60 cm (excl. self-discharging wagons); ADD: ; ADD: Transport infrastructure for rail supports a cleaner transport mode than alternatives, particularly with the electrification of rail.	860692 - Railway or tramway goods vans and wagons; open, with non-removable sides of a height exceeding 60cm, not self-propelled	860692 - -- Open, with non-removable sides of a height exceeding 60 cm	TRUE	yes	X; based on description	860692
242	860699		860699	1:1	Railway or tramway goods vans and wagons (excl. those specially designed for the transport of highly radioactive materials, tank wagons and the like, insulated, refrigerated or self-discharging goods vans and wagons and open goods vans and wagons with non-removable	860699 - Railway or tramway goods vans and wagons; n.e.c. in heading no. 8606, not self-propelled	860699 - -- Other	TRUE	yes	X; based on description	860699

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					sides of a height > 60 cm); ADD: ; ADD: Transport infrastructure for rail supports a cleaner transport mode than alternatives, particularly with the electrification of rail.						
243	860711		860711	1:1	Driving bogies and bissel-bogies for railway or tramway locomotives or rolling stock; ADD: ; ADD: Transport infrastructure for rail supports a cleaner transport mode than alternatives, particularly with the electrification of rail.	860711 - Railway or tramway locomotives or rolling stock; parts, driving bogies and bissel-bogies	860711 - -- Driving bogies and bissel-bogies	TRUE	yes	X; based on description	860711
244	860712		860712	1:1	Bogies and driving bissel-bogies for railway or tramway locomotives or rolling stock (excl. driving bogies); ADD: ; ADD: Transport infrastructure for rail supports a cleaner transport mode than alternatives, particularly with the electrification of rail.	860712 - Railway or tramway locomotives or rolling stock; parts, bogies and bissel-bogies (excluding driving bogies and bissel-bogies)	860712 - -- Other bogies and bissel-bogies	TRUE	yes	X; based on description	860712

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
245	860719		860719	1:1	Axles, for electrical purposes and wheels and parts thereof for railway or tramway locomotives or rolling stock; parts of bogies and bissel-bogies, n.e.s.; ADD: ; ADD: Transport infrastructure for rail supports a cleaner transport mode than alternatives, particularly with the electrification of rail.	860719 - Railway or tramway locomotives or rolling stock; parts, axles and wheels, and parts thereof	860719 - -- Other, including parts	TRUE	yes	X; based on description	860719
246	860721		860721	1:1	Air brakes and parts thereof for railway or tramway locomotives or rolling stock, n.e.s.; ADD: ; ADD: Transport infrastructure for rail supports a cleaner transport mode than alternatives, particularly with the electrification of rail.	860721 - Railway or tramway locomotives or rolling stock; parts, air brakes and parts thereof	860721 - -- Air brakes and parts thereof	TRUE	yes	X; based on description	860721
247	860729		860729	1:1	Brakes (other than air brakes) and parts thereof, for railway or tramway locomotives or rolling stock, n.e.s.; ADD: ; ADD: Transport infrastructure for rail supports a cleaner transport mode than alternatives, particularly with the electrification of rail.	860729 - Railway or tramway locomotives or rolling stock; parts, brakes (other than air brakes) and parts thereof	860729 - -- Other	TRUE	yes	X; based on description	860729

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
248	860730		860730	1:1	Hooks and other coupling devices, buffers and parts thereof, for railway or tramway locomotives or rolling stock, n.e.s.; ADD: ; ADD: Transport infrastructure for rail supports a cleaner transport mode than alternatives, particularly with the electrification of rail.	860730 - Railway or tramway locomotives or rolling stock; parts, hooks and other coupling devices, buffers and parts thereof	860730 - -Hooks and other coupling devices, buffers, and parts thereof	TRUE	yes	X; based on description	860730
249	860791		860791	1:1	Parts of railway or tramway locomotives, n.e.s.; ADD: ; ADD: Transport infrastructure for rail supports a cleaner transport mode than alternatives, particularly with the electrification of rail.	860791 - Railway or tramway locomotives; parts n.e.c. in heading no. 8607	860791 - -- Of locomotives	TRUE	yes	X; based on description	860791
250	860799		860799	1:1	Parts of rolling stock of heading 8603, 8604, 8605 or 8606, n.e.s.; ADD: ; ADD: Transport infrastructure for rail supports a cleaner transport mode than alternatives, particularly with the electrification of rail.	860799 - Railway or tramway rolling stock; parts n.e.c. in heading no. 8607	860799 - -- Other	TRUE	yes	X; based on description	860799

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
251	860800		860800	1:1	Railway or tramway track fixtures and fittings (excl. sleepers of wood, concrete or steel, sections of track and other track fixtures not yet assembled and railway or tramway track construction material); mechanical, incl. electromechanical, signalling, safety or traffic control equipment for railways, tramways, roads, inland waterways, parking facilities, port installations or airfields; parts thereof	860800 - Railway or tramway track fixtures and fittings; mechanical (including electro-mechanical) signalling, safety or traffic control equipment for railways, tramways, roads, inland waterways, parking facilities, port installations or airfields; parts thereof	860800 - Railway or tramway track fixtures and fittings; mechanical (including electro-mechanical) signalling, safety or traffic control equipment for railways, tramways, roads, inland waterways, parking facilities, port installations or airfields; parts of the foregoing.	TRUE	yes	X; based on description	860800
252	870230	ex	870290	n:1	Motor vehicles for the transport of >= 10 persons, incl. driver, with both spark-ignition internal combustion reciprocating piston engine and electric motor as motors for propulsion; ADD: ; ADD: Electric vehicles do not produce greenhouse gas	870230 - Vehicles; public transport type (carries 10 or more persons, including driver), with both compression-ignition internal combustion piston engine (diesel or semi-diesel) and electric motor for	870290 - -Other 8702 - Motor vehicles for the transport of ten or more persons, including the driver.	FALSE	yes	EX; 870230 is present in HS2017 and absent from HS2012. It covers the same class of motor vehicles but with a hybrid engine, so could fall under 870290 in HS2012	870290

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					emissions (CO2 etc). Hybrid vehicles are powered by both a battery and an internal combustion engine and emit significantly less pollutants and greenhouse gases than conventional motor vehicles.	propulsion , new or used					
253	870240	ex	870290	n:1	Vehicles; public transport type (carries 10 or more persons, including driver), with only electric motor for propulsion, new or used ; ADD: ; ADD: Electric-powered vehicles provide an environmentally friendly, low-carbon mode of transportation, which can contribute to lowering GHG emissions in the transport sector as well as reducing air pollution.	870240 - Vehicles; public transport type (carries 10 or more persons, including driver), with only electric motor for propulsion , new or used	870290 - -Other 8702 - Motor vehicles for the transport of ten or more persons, including the driver.	FALSE	yes	EX; 870240 is present in HS2017 and absent from HS2012. It covers the same class of motor vehicles but only electric motor, so could fall under 870290 in HS2012	870290

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
254	870340	ex	870321	n:n	Motor cars and other motor vehicles principally designed for the transport of <10 persons , incl. station wagons and racing cars, with both spark-ignition internal combustion reciprocating piston engine and electric motor as motors for propulsion (excl. vehicles for travelling on snow, other specially designed vehicles of subheading 8703.10 and plug-in hybrids); ADD: ; ADD: Electric vehicles do not produce greenhouse gas emissions (CO2 etc).	870340 - Vehicles; with both spark-ignition internal combustion reciprocating piston engine and electric motor for propulsion, incapable of being charged by plugging to external source of electric power	870321 - -- Of a cylinder capacity not exceeding 1,000 cc 8703 - Motor cars and other motor vehicles principally designed for the transport of persons (other than those of heading 87.02), including station wagons and racing cars.	FALSE	yes	EX; 870340 is present in HS2017 and missing in HS2012. This new code incorporates vehicles with non-plug-in hybrids (combined with spark-ignition internal combustion reciprocating piston engine) , category that is entirely missing from HS2012. Thus for HS2012 partial for this 6-digit code is only partial, as it would include conventional internal combustion vehicles at well.	870321
254	870340	ex	870322	n:n	Motor cars and other motor vehicles principally designed for the transport of <10 persons , incl. station wagons and racing cars, with both spark-ignition internal combustion reciprocating piston engine and electric motor as motors for propulsion (excl. vehicles for travelling on snow, other specially designed vehicles of subheading	870340 - Vehicles; with both spark-ignition internal combustion reciprocating piston engine and electric motor for propulsion, incapable of being charged by plugging to external source of electric power	870322 - -- Of a cylinder capacity exceeding 1,000 cc but not exceeding 1,500 cc 8703 - Motor cars and other motor vehicles principally designed for the transport of persons (other than those of heading 87.02), including station wagons and racing cars.	FALSE	yes	EX; 870340 is present in HS2017 and missing in HS2012. This new code incorporates vehicles with non-plug-in hybrids (combined with spark-ignition internal combustion reciprocating piston engine) , category that is entirely missing from HS2012. Thus for HS2012 partial for this 6-digit code is only partial, as it would include conventional internal combustion vehicles at well.	870322

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					8703.10 and plug-in hybrids); ADD: ; ADD: Electric vehicles do not produce greenhouse gas emissions (CO2 etc).						
254	870340	ex	870323	n:n	Motor cars and other motor vehicles principally designed for the transport of <10 persons , incl. station wagons and racing cars, with both spark-ignition internal combustion reciprocating piston engine and electric motor as motors for propulsion (excl. vehicles for travelling on snow, other specially designed vehicles of subheading 8703.10 and plug-in hybrids); ADD: ; ADD: Electric vehicles do not produce greenhouse gas emissions (CO2 etc).	870340 - Vehicles; with both spark-ignition internal combustion reciprocating piston engine and electric motor for propulsion, incapable of being charged by plugging to external source of electric power	870323 - -- Of a cylinder capacity exceeding 1,500 cc but not exceeding 3,000 cc 8703 - Motor cars and other motor vehicles principally designed for the transport of persons (other than those of heading 87.02), including station wagons and racing cars.	FALSE	yes	EX; 870340 is present in HS2017 and missing in HS2012. This new code incorporates vehicles with non-plug-in hybrids (combined with spark-ignition internal combustion reciprocating piston engine) , category that is entirely missing from HS2012. Thus for HS2012 partial for this 6-digit code is only partial, as it would include conventional internal combustion vehicles at well.	870323

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
254	870340	ex	870324	n:n	Motor cars and other motor vehicles principally designed for the transport of <10 persons , incl. station wagons and racing cars, with both spark-ignition internal combustion reciprocating piston engine and electric motor as motors for propulsion (excl. vehicles for travelling on snow, other specially designed vehicles of subheading 8703.10 and plug-in hybrids); ADD: ; ADD: Electric vehicles do not produce greenhouse gas emissions (CO2 etc).	870340 - Vehicles; with both spark-ignition internal combustion reciprocating piston engine and electric motor for propulsion, incapable of being charged by plugging to external source of electric power	870324 - -- Of a cylinder capacity exceeding 3,000 cc 8703 - Motor cars and other motor vehicles principally designed for the transport of persons (other than those of heading 87.02), including station wagons and racing cars.	FALSE	yes	EX; 870340 is present in HS2017 and missing in HS2012. This new code incorporates vehicles with non-plug-in hybrids (combined with spark-ignition internal combustion reciprocating piston engine) , category that is entirely missing from HS2012. Thus for HS2012 partial for this 6-digit code is only partial, as it would include conventional internal combustion vehicles at well.	870324
254	870340	ex	870390	n:n	Motor cars and other motor vehicles principally designed for the transport of <10 persons , incl. station wagons and racing cars, with both spark-ignition internal combustion reciprocating piston engine and electric motor as motors for propulsion (excl. vehicles for travelling on snow, other specially designed vehicles of subheading	870340 - Vehicles; with both spark-ignition internal combustion reciprocating piston engine and electric motor for propulsion, incapable of being charged by plugging to external source of electric power	870390 - -Other 8703 - Motor cars and other motor vehicles principally designed for the transport of persons (other than those of heading 87.02), including station wagons and racing cars.	FALSE	yes	EX; 870340 is present in HS2017 and missing in HS2012. This new code incorporates vehicles with non-plug-in hybrids (combined with spark-ignition internal combustion reciprocating piston engine) , category that is entirely missing from HS2012. Thus for HS2012 partial for this 6-digit code is only partial, as it would include conventional internal combustion vehicles at well.	870390

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					8703.10 and plug-in hybrids); ADD: ; ADD: Electric vehicles do not produce greenhouse gas emissions (CO2 etc).						
255	870350	ex	870331	n:n	Motor cars and other motor vehicles principally designed for the transport of <10 persons , incl. station wagons and racing cars, with both diesel engine and electric motor as motors for propulsion (excl. vehicles for travelling on snow, other specially designed vehicles of subheading 8703.10 and plug-in hybrids); ADD: ; ADD: Electric vehicles do not produce greenhouse gas emissions (CO2 etc).	870350 - Vehicles; with both compression-ignition internal combustion piston engine (diesel or semi-diesel) and electric motor for propulsion , incapable of being charged by plugging to external source of electric power	870331 - -- Of a cylinder capacity not exceeding 1,500 cc 8703 - Motor cars and other motor vehicles principally designed for the transport of persons (other than those of heading 87.02), including station wagons and racing cars.	FALSE	yes	EX; 870350 is present in HS2017 and missing in HS2012. This new code incorporates vehicles with non-plug-in hybrids (diesel engine) , category that is entirely missing from HS2012. Thus for HS2012 partial for this 6-digit code is only partial, as it would include conventional internal combustion vehicles at well.	870331

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
255	870350	ex	870332	n:n	Motor cars and other motor vehicles principally designed for the transport of <10 persons , incl. station wagons and racing cars, with both diesel engine and electric motor as motors for propulsion (excl. vehicles for travelling on snow, other specially designed vehicles of subheading 8703.10 and plug-in hybrids) ; ADD: ; ADD: Electric vehicles do not produce greenhouse gas emissions (CO2 etc).	870350 - Vehicles; with both compression-ignition internal combustion piston engine (diesel or semi-diesel) and electric motor for propulsion , incapable of being charged by plugging to external source of electric power	870332 - -- Of a cylinder capacity exceeding 1,500 cc but not exceeding 2,500 cc 8703 - Motor cars and other motor vehicles principally designed for the transport of persons (other than those of heading 87.02), including station wagons and racing cars.	FALSE	yes	EX; 870350 is present in HS2017 and missing in HS2012. This new code incorporates vehicles with non-plug-in hybrids (diesel engine) , category that is entirely missing from HS2012. Thus for HS2012 partial for this 6-digit code is only partial, as it would include conventional internal combustion vehicles at well.	870332
255	870350	ex	870333	n:n	Motor cars and other motor vehicles principally designed for the transport of <10 persons , incl. station wagons and racing cars, with both diesel engine and electric motor as motors for propulsion (excl. vehicles for travelling on snow, other specially designed vehicles of subheading 8703.10 and plug-in hybrids) ; ADD: ; ADD: Electric vehicles do not produce greenhouse gas emissions (CO2 etc).	870350 - Vehicles; with both compression-ignition internal combustion piston engine (diesel or semi-diesel) and electric motor for propulsion , incapable of being charged by plugging to external source of electric power	870333 - -- Of a cylinder capacity exceeding 2,500 cc 8703 - Motor cars and other motor vehicles principally designed for the transport of persons (other than those of heading 87.02), including station wagons and racing cars.	FALSE	yes	EX; 870350 is present in HS2017 and missing in HS2012. This new code incorporates vehicles with non-plug-in hybrids (diesel engine) , category that is entirely missing from HS2012. Thus for HS2012 partial for this 6-digit code is only partial, as it would include conventional internal combustion vehicles at well.	870333

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
255	870350	ex	870390	n:n	Motor cars and other motor vehicles principally designed for the transport of <10 persons , incl. station wagons and racing cars, with both diesel engine and electric motor as motors for propulsion (excl. vehicles for travelling on snow, other specially designed vehicles of subheading 8703.10 and plug-in hybrids) ; ADD: ; ADD: Electric vehicles do not produce greenhouse gas emissions (CO2 etc).	870350 - Vehicles; with both compression-ignition internal combustion piston engine (diesel or semi-diesel) and electric motor for propulsion , incapable of being charged by plugging to external source of electric power	870390 - -Other 8703 - Motor cars and other motor vehicles principally designed for the transport of persons (other than those of heading 87.02), including station wagons and racing cars.	FALSE	yes	EX; 870350 is present in HS2017 and missing in HS2012. This new code incorporates vehicles with non-plug-in hybrids (diesel engine) , category that is entirely missing from HS2012. Thus for HS2012 partial for this 6-digit code is only partial, as it would include conventional internal combustion vehicles at well.	870390
256	870360	ex	870321	n:n	Motor cars and other motor vehicles principally designed for the transport of <10 persons , incl. station wagons and racing cars, with both spark-ignition internal combustion reciprocating piston engine and electric motor as motors for propulsion, capable of being charged by plugging to external source of electric power (excl. vehicles for travelling on snow and other specially designed vehicles of	870360 - Vehicles; with both spark-ignition internal combustion reciprocating piston engine and electric motor for propulsion, capable of being charged by plugging to external source of electric power	870321 - -- Of a cylinder capacity not exceeding 1,000 cc 8703 - Motor cars and other motor vehicles principally designed for the transport of persons (other than those of heading 87.02), including station wagons and racing cars.	FALSE	yes	EX; 870360 is present in HS2017 and missing in HS2012. This new code incorporates vehicles with plug-in hybrids (combined with spark-ignition internal combustion reciprocating piston engine) , category that is entirely missing from HS2012. Thus for HS2012 partial for this 6-digit code is only partial, as it would include conventional internal combustion vehicles at well.	870321

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					subheading 8703.10); ADD: ; ADD: Electric vehicles do not produce greenhouse gas emissions (CO2 etc).						
256	870360	ex	870322	n:n	Motor cars and other motor vehicles principally designed for the transport of <10 persons , incl. station wagons and racing cars, with both spark-ignition internal combustion reciprocating piston engine and electric motor as motors for propulsion, capable of being charged by plugging to external source of electric power (excl. vehicles for travelling on snow and other specially designed vehicles of subheading 8703.10); ADD: ; ADD: Electric vehicles do not produce greenhouse	870360 - Vehicles; with both spark-ignition internal combustion reciprocating piston engine and electric motor for propulsion, capable of being charged by plugging to external source of electric power	870322 - -- Of a cylinder capacity exceeding 1,000 cc but not exceeding 1,500 cc 8703 - Motor cars and other motor vehicles principally designed for the transport of persons (other than those of heading 87.02), including station wagons and racing cars.	FALSE	yes	EX; 870360 is present in HS2017 and missing in HS2012. This new code incorporates vehicles with plug-in hybrids (combined with spark-ignition internal combustion reciprocating piston engine) , category that is entirely missing from HS2012. Thus for HS2012 partial for this 6-digit code is only partial, as it would include conventional internal combustion vehicles at well.	870322

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					gas emissions (CO2 etc).						
256	870360	ex	870323	n:n	Motor cars and other motor vehicles principally designed for the transport of <10 persons , incl. station wagons and racing cars, with both spark-ignition internal combustion reciprocating piston engine and electric motor as motors for propulsion, capable of being charged by plugging to external source of electric power (excl. vehicles for travelling on snow and other specially designed vehicles of subheading 8703.10); ADD: ; ADD: Electric vehicles do not produce greenhouse	870360 - Vehicles; with both spark-ignition internal combustion reciprocating piston engine and electric motor for propulsion, capable of being charged by plugging to external source of electric power	870323 - -- Of a cylinder capacity exceeding 1,500 cc but not exceeding 3,000 cc 8703 - Motor cars and other motor vehicles principally designed for the transport of persons (other than those of heading 87.02), including station wagons and racing cars.	FALSE	yes	EX; 870360 is present in HS2017 and missing in HS2012. This new code incorporates vehicles with plug-in hybrids (combined with spark-ignition internal combustion reciprocating piston engine) , category that is entirely missing from HS2012. Thus for HS2012 partial for this 6-digit code is only partial, as it would include conventional internal combustion vehicles at well.	870323

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					gas emissions (CO2 etc).						
256	870360	ex	870324	n:n	Motor cars and other motor vehicles principally designed for the transport of <10 persons , incl. station wagons and racing cars, with both spark-ignition internal combustion reciprocating piston engine and electric motor as motors for propulsion, capable of being charged by plugging to external source of electric power (excl. vehicles for travelling on snow and other specially designed vehicles of subheading 8703.10); ADD: ; ADD: Electric vehicles do not produce greenhouse	870360 - Vehicles; with both spark-ignition internal combustion reciprocating piston engine and electric motor for propulsion, capable of being charged by plugging to external source of electric power	870324 - -- Of a cylinder capacity exceeding 3,000 cc 8703 - Motor cars and other motor vehicles principally designed for the transport of persons (other than those of heading 87.02), including station wagons and racing cars.	FALSE	yes	EX; 870360 is present in HS2017 and missing in HS2012. This new code incorporates vehicles with plug-in hybrids (combined with spark-ignition internal combustion reciprocating piston engine) , category that is entirely missing from HS2012. Thus for HS2012 partial for this 6-digit code is only partial, as it would include conventional internal combustion vehicles at well.	870324

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					gas emissions (CO2 etc).						
256	870360	ex	870390	n:n	Motor cars and other motor vehicles principally designed for the transport of <10 persons , incl. station wagons and racing cars, with both spark-ignition internal combustion reciprocating piston engine and electric motor as motors for propulsion, capable of being charged by plugging to external source of electric power (excl. vehicles for travelling on snow and other specially designed vehicles of subheading 8703.10); ADD: ; ADD: Electric vehicles do not produce greenhouse	870360 - Vehicles; with both spark-ignition internal combustion reciprocating piston engine and electric motor for propulsion, capable of being charged by plugging to external source of electric power	870390 - -Other 8703 - Motor cars and other motor vehicles principally designed for the transport of persons (other than those of heading 87.02), including station wagons and racing cars.	FALSE	yes	EX; 870360 is present in HS2017 and missing in HS2012. This new code incorporates vehicles with plug-in hybrids (combined with spark-ignition internal combustion reciprocating piston engine) , category that is entirely missing from HS2012. Thus for HS2012 partial for this 6-digit code is only partial, as it would include conventional internal combustion vehicles at well.	870390

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					gas emissions (CO2 etc).						
257	870370	ex	870331	n:n	Motor cars and other motor vehicles principally designed for the transport of <10 persons , incl. station wagons and racing cars, with both diesel engine and electric motor as motors for propulsion, capable of being charged by plugging to external source of electric power (excl. vehicles for travelling on snow and other specially designed vehicles of subheading 8703.10); ADD: ; ADD: Electric vehicles do not produce greenhouse gas emissions (CO2 etc).	870370 - Vehicles; with both compression-ignition internal combustion piston engine (diesel or semi-diesel) and electric motor for propulsion, capable of being charged by plugging to external source of electric power	870331 - -- Of a cylinder capacity not exceeding 1,500 cc 8703 - Motor cars and other motor vehicles principally designed for the transport of persons (other than those of heading 87.02), including station wagons and racing cars.	FALSE	yes	EX; 870370 is present in HS2017 and missing in HS2012. This new code incorporates vehicles with plug-in hybrids (diesel engine) , category that is entirely missing from HS2012. Thus for HS2012 partial for this 6-digit code is only partial, as it would include conventional internal combustion vehicles at well.	870331

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
257	870370	ex	870332	n:n	Motor cars and other motor vehicles principally designed for the transport of <10 persons , incl. station wagons and racing cars, with both diesel engine and electric motor as motors for propulsion, capable of being charged by plugging to external source of electric power (excl. vehicles for travelling on snow and other specially designed vehicles of subheading 8703.10); ADD: ; ADD: Electric vehicles do not produce greenhouse gas emissions (CO2 etc).	870370 - Vehicles; with both compression-ignition internal combustion piston engine (diesel or semi-diesel) and electric motor for propulsion, capable of being charged by plugging to external source of electric power	870332 - -- Of a cylinder capacity exceeding 1,500 cc but not exceeding 2,500 cc 8703 - Motor cars and other motor vehicles principally designed for the transport of persons (other than those of heading 87.02), including station wagons and racing cars.	FALSE	yes	EX; 870370 is present in HS2017 and missing in HS2012. This new code incorporates vehicles with plug-in hybrids (diesel engine) , category that is entirely missing from HS2012. Thus for HS2012 partial for this 6-digit code is only partial, as it would include conventional internal combustion vehicles at well.	870332
257	870370	ex	870333	n:n	Motor cars and other motor vehicles principally designed for the transport of <10 persons , incl. station wagons and racing cars, with both diesel engine and electric motor as motors for propulsion, capable of being charged by plugging to external source of electric power (excl. vehicles for travelling on snow and other specially designed vehicles of	870370 - Vehicles; with both compression-ignition internal combustion piston engine (diesel or semi-diesel) and electric motor for propulsion, capable of being charged by plugging to external source of electric power	870333 - -- Of a cylinder capacity exceeding 2,500 cc 8703 - Motor cars and other motor vehicles principally designed for the transport of persons (other than those of heading 87.02), including station wagons and racing cars.	FALSE	yes	EX; 870370 is present in HS2017 and missing in HS2012. This new code incorporates vehicles with plug-in hybrids (diesel engine) , category that is entirely missing from HS2012. Thus for HS2012 partial for this 6-digit code is only partial, as it would include conventional internal combustion vehicles at well.	870333

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					subheading 8703.10); ADD: ; ADD: Electric vehicles do not produce greenhouse gas emissions (CO2 etc).						
257	870370	ex	870390	n:n	Motor cars and other motor vehicles principally designed for the transport of <10 persons , incl. station wagons and racing cars, with both diesel engine and electric motor as motors for propulsion, capable of being charged by plugging to external source of electric power (excl. vehicles for travelling on snow and other specially designed vehicles of subheading 8703.10); ADD: ; ADD: Electric vehicles do not produce greenhouse gas emissions (CO2 etc).	870370 - Vehicles; with both compression-ignition internal combustion piston engine (diesel or semi-diesel) and electric motor for propulsion, capable of being charged by plugging to external source of electric power	870390 - -Other 8703 - Motor cars and other motor vehicles principally designed for the transport of persons (other than those of heading 87.02), including station wagons and racing cars.	FALSE	yes	EX; 870370 is present in HS2017 and missing in HS2012. This new code incorporates vehicles with plug-in hybrids (diesel engine) , category that is entirely missing from HS2012. Thus for HS2012 partial for this 6-digit code is only partial, as it would include conventional internal combustion vehicles at well.	870390

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
258	870380	ex	870390	n:1	Vehicles; with only electric motor for propulsion ; ADD: ; ADD: Electric-powered vehicles provide an environmentally friendly, low-carbon mode of transportation, which can contribute to lowering GHG emissions in the transport sector as well as reducing air pollution.	870380 - Vehicles; with only electric motor for propulsion	870390 - -Other 8703 - Motor cars and other motor vehicles principally designed for the transport of persons (other than those of heading 87.02), including station wagons and racing cars.	FALSE	yes	EX; 870380 is present in HS2017 and absent from HS2012. It covers the same class of motor vehicles but only electric motor, so could fall under 870390 in HS2012	870390
259	871160	ex	871190	n:1	Motorcycles (including mopeds) and cycles; fitted with auxiliary motor, with electric motor for propulsion , with or without side-cars; side-cars; ADD: ; ADD: Electric-powered motorcycles provide an environmentally friendly, low-carbon mode of transportation, which can contribute to lowering GHG emissions in the transport sector as well as reducing air pollution.	871160 - Motorcycles (including mopeds) and cycles; fitted with auxiliary motor, with electric motor for propulsion , with or without side-cars; side-cars	871190 - -Other 8711 - Motorcycles (including mopeds) and cycles fitted with an auxiliary motor, with or without side-cars; side-cars.	FALSE	yes	EX; 871160 is present in HS2017 and absent from HS2012. It covers the same class of motor vehicles but only with electric motor, so could fall under 871190 in HS2012	871190
260	871200		871200	1:1	Bicycles and other cycles, incl. delivery tricycles, not motorised; ADD: ; ADD: Bicycles and their parts provide an environmentally friendly, low-carbon	871200 - Bicycles and other cycles; including delivery tricycles, not motorised	871200 - Bicycles and other cycles (including delivery tricycles), not motorised.	TRUE	yes	X; based on description	871200

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					mode of transportation, which can contribute to lowering GHG emissions in the transport sector as well as reducing air pollution.						
261	871491		871491	1:1	Cycles; frames and forks, and parts thereof; ADD: ; ADD: Bicycles and their parts provide an environmentally friendly, low-carbon mode of transportation, which can contribute to lowering GHG emissions in the transport sector as well as reducing air pollution.	871491 - Cycles; frames and forks, and parts thereof	871491 - -- Frames and forks, and parts thereof 8714 - Parts and accessories of vehicles of headings 87.11 to 87.13.	TRUE	yes	X; based on description	871491
262	871492		871492	1:1	Cycles; parts thereof, wheel rims and spokes; ADD: ; ADD: Bicycles and their parts provide an environmentally friendly, low-carbon mode of transportation, which can contribute to lowering GHG emissions in the transport sector as well as reducing air pollution.	871492 - Cycles; parts thereof, wheel rims and spokes	871492 - -- Wheel rims and spokes 8714 - Parts and accessories of vehicles of headings 87.11 to 87.13.	TRUE	yes	X; based on description	871492

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
263	871493		871493	1:1	Cycles; parts thereof, hubs (other than coaster braking hubs and hub brakes) and free-wheel sprocket-wheels; ADD: ; ADD: Bicycles and their parts provide an environmentally friendly, low-carbon mode of transportation, which can contribute to lowering GHG emissions in the transport sector as well as reducing air pollution.	871493 - Cycles; parts thereof, hubs (other than coaster braking hubs and hub brakes) and free-wheel sprocket-wheels	871493 - -- Hubs, other than coaster braking hubs and hub brakes, and free-wheel sprocket-wheels 8714 - Parts and accessories of vehicles of headings 87.11 to 87.13.	TRUE	yes	X; based on description	871493
264	871494		871494	1:1	Cycles; parts thereof, brakes, including coaster braking hubs and hub- brakes, and parts thereof; ADD: ; ADD: Bicycles and their parts provide an environmentally friendly, low-carbon mode of transportation, which can contribute to lowering GHG emissions in the transport sector as well as reducing air pollution.	871494 - Cycles; parts thereof, brakes, including coaster braking hubs and hub-brakes, and parts thereof	871494 - -- Brakes, including coaster braking hubs and hub brakes, and parts thereof 8714 - Parts and accessories of vehicles of headings 87.11 to 87.13.	TRUE	yes	X; based on description	871494
265	871495		871495	1:1	Cycles; parts thereof, saddles; ADD: ; ADD: Bicycles and their parts provide an environmentally friendly, low-carbon mode of transportation,	871495 - Cycles; parts thereof, saddles	871495 - -- Saddles 8714 - Parts and accessories of vehicles of headings 87.11 to 87.13.	TRUE	yes	X; based on description	871495

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					which can contribute to lowering GHG emissions in the transport sector as well as reducing air pollution.						
266	871496		871496	1:1	Cycles; parts, pedals and crank-gear, and parts thereof; ADD: ; ADD: Bicycles and their parts provide an environmentally friendly, low-carbon mode of transportation, which can contribute to lowering GHG emissions in the transport sector as well as reducing air pollution.	871496 - Cycles; parts, pedals and crank-gear, and parts thereof	871496 - -- Pedals and crank-gear, and parts thereof 8714 - Parts and accessories of vehicles of headings 87.11 to 87.13.	TRUE	yes	X; based on description	871496
267	871499		871499	1:1	Cycles; parts thereof, n.e.c. in item no. 8714.9; ADD: ; ADD: Bicycles and their parts provide an environmentally friendly, low-carbon mode of transportation, which can contribute to lowering GHG emissions in the transport sector as well as reducing air pollution.	871499 - Cycles; parts thereof, n.e.c. in item no. 8714.9	871499 - -- Other 8714 - Parts and accessories of vehicles of headings 87.11 to 87.13.	TRUE	yes	X; based on description	871499

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
268	890710		890710	1:1	890710 (SC): Inflatable rafts; ADD: ; ADD: Floating barriers to oil, which can prevent an oil slick from reaching sensitive locations or spreading out further.	890710 - Rafts; inflatable	890710 - -Inflatable rafts 8907 - Other floating structures (for example, rafts, tanks, coffer-dams, landing-stages, buoys and beacons).	TRUE	yes	X; based on description	890710
269	890790		890790	1:1	Other floating structures (for example, rafts, tanks, coffer-dams, landing-stages, buoys and beacons): - Other; ADD: Oil recovery, absorbent or containment booms; ADD: Floating barriers can be used to contain oil spills or prevent oil spills from reaching sensitive locations.	890790 - Floating structures; tanks, coffer-dams, landing stages, buoys and beacons	890790 - -Other 8907 - Other floating structures (for example, rafts, tanks, coffer-dams, landing-stages, buoys and beacons)	TRUE	yes	X; based on description	890790
270	890790		890790	1:1	Other floating structures (for example, rafts, tanks, coffer-dams, landing-stages, buoys and beacons): - Other; ADD: Inflatable oil spill recovery barges and tanks; ADD:	890790 - Floating structures; tanks, coffer-dams, landing stages, buoys and beacons	890790 - -Other 8907 - Other floating structures (for example, rafts, tanks, coffer-dams, landing-stages, buoys and beacons)	TRUE	yes	X; based on description	890790

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
271	890790		890790	1:1	Other floating structures (for example, rafts, tanks, coffer-dams, landing-stages, buoys and beacons): - Other; ADD: Litter collecting booms; ADD: Litter booms are designed to stretch over the surface of the water to catch floating plastic and other debris as the debris moves downstream.	890790 - Floating structures; tanks, coffer-dams, landing stages, buoys and beacons	890790 - -Other 8907 - Other floating structures (for example, rafts, tanks, coffer-dams, landing-stages, buoys and beacons)	TRUE	yes	X; based on description	890790
272*	900190		900190	1:1	Optical elements; lenses n.e.c. in heading no. 9001, prisms, mirrors and other optical elements, unmounted, of any material (excluding elements of glass not optically worked); ADD: Solar concentrating or reflecting optical elements; ADD: Solar concentrator systems are used to concentrate and intensify solar power in a solar energy system, helping to generate renewable energy.	900190 - Optical elements; lenses n.e.c. in heading no. 9001, prisms, mirrors and other optical elements, unmounted, of any material (excluding elements of glass not optically worked)	900190 - -Other 9001 - 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.	TRUE	yes	X; based on description	900190

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
273*	900290		900290	1:1	Optical elements; n.e.c. in heading no. 9002 (e.g. prisms and mirrors), mounted, being parts or fittings for instruments or apparatus, of any material (excluding elements of glass not optically worked); ADD: Solar concentrating or reflecting optical elements; ADD: Solar concentrator systems are used to concentrate and intensify solar power in a solar energy system, helping to generate renewable energy.	900290 - Optical elements; n.e.c. in heading no. 9002 (e.g. prisms and mirrors), mounted, being parts or fittings for instruments or apparatus, of any material (excluding elements of glass not optically worked)	900290 - -Other 9002 - 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.	TRUE	yes	X; based on description	900290
274	901210		901210	1:1	Microscopes (excluding optical microscopes); diffraction apparatus; ADD: Electron microscopes; ADD: Electron microscopes are used to investigate the ultrastructure of a wide range of biological and inorganic specimens. They are an essential tool in evaluating the impacts of a range of pollutants and bacteria on the physical environment.	901210 - Microscopes (excluding optical microscopes); diffraction apparatus	901210 - - Microscopes other than optical microscopes; diffraction apparatus	TRUE	yes	X; based on description	901210

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
275	901290		901290	1:1	Microscopes (excluding optical microscopes); diffraction apparatus; parts and accessories; ADD: Parts of 9012.10; ADD: Parts and accessories of 9012.10, with the associated environmental benefits.	901290 - Microscopes (excluding optical microscopes); diffraction apparatus; parts and accessories	901290 - -Parts and accessories 9012 - Microscopes other than optical microscopes; diffraction apparatus.	TRUE	yes	X; based on description	901290
276	901320		901320	1:1	Lasers; other than laser diodes; ADD: Carbon dioxide lasers; ADD: Carbon dioxide lasers can be used for high-temperature incineration of hazardous waste as well as for decoating and decontamination of surfaces.	901320 - Lasers; other than laser diodes	901320 - -Lasers, other than laser diodes	TRUE	yes	X; based on description	901320
277*	901380		901380	1:1	Optical devices, appliances and instruments; n.e.c. in heading no. 9013 (including liquid crystal devices); ADD: Solar heliostats; ADD: Heliostats are an integral component in concentrated solar systems. By constantly adjusting to the sun's movement, heliostats are able to reflect sunlight onto receivers thereby helping to generate renewable solar energy.	901380 - Optical devices, appliances and instruments; n.e.c. in heading no. 9013 (including liquid crystal devices)	901380 - -Other devices, appliances and instruments	TRUE	yes	X; based on description	901380

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
278*	901390		901390	1:1	Optical appliances and instruments; parts and accessories for articles of heading no. 9013; ADD: Parts of 9013.20x and 9013.80x; ADD: Parts and accessories of 9013.20x and 9013.80x, with the associated environmental benefits.	901390 - Optical appliances and instruments; parts and accessories for articles of heading no. 9013	901390 - -Parts and accessories	TRUE	yes	X; based on description	901390
279	901530		901530	1:1	Levels; ADD: ; ADD: Of a kind used for environmental services and scientific services related to the environment or climate.	901530 - Surveying equipment; levels	901530 - -Levels 9015 - Surveying (including photogrammetrical surveying), hydrographic, oceanographic, hydrological, meteorological or geophysical instruments and appliances, excluding compasses; rangefinders.	TRUE	yes	X; based on description	901530
280	901540		901540	1:1	Photogrammetrical surveying instruments and appliances; ADD: ; ADD: Photogrammetry is an aerial remote sensing technique which forms the baseline of many Geographic Information Systems (GIS) and Land Information Systems (LIS), which are important for monitoring and	901540 - Surveying equipment; photogrammetrical surveying instruments and appliances	901540 - - Photogrammetrical surveying instruments and appliances 9015 - Surveying (including photogrammetrical surveying), hydrographic, oceanographic, hydrological, meteorological or geophysical instruments and	TRUE	yes	X; based on description	901540

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					managing natural risks such as floods, earthquakes.		appliances, excluding compasses; rangefinders.				
281	901580		901580	1:1	<p>Surveying equipment; articles n.e.c. in heading no. 9015, including hydrographic, oceanographic, hydrological, meteorological or geophysical instruments and appliances (excluding compasses); ADD: ; ADD: Surveying equipment used for measuring natural elements and to monitor, measure and plan for natural risks such as earthquakes, cyclones, and tsunamis. Oceanographic monitoring instruments are also included under this subheading to measure water temperature or to detect dissolved gases in water, hydrocarbon contamination, and underwater noise.</p>	901580 - Surveying equipment; articles n.e.c. in heading no. 9015, including hydrographic, oceanographic, hydrological, meteorological or geophysical instruments and appliances (excluding compasses)	901580 - -Other instruments and appliances 9015 - Surveying (including photogrammetrical surveying), hydrographic, oceanographic, hydrological, meteorological or geophysical instruments and appliances, excluding compasses; rangefinders.	TRUE	yes	X; based on description	901580

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
282	901590	ex	901590	n:1	Surveying equipment; parts and accessories for articles of heading no. 9015; ADD: Parts of 9015.80; ADD: Parts and accessories of 9015.80, with the associated environmental benefits.	901590 - Surveying equipment; parts and accessories for articles of heading no. 9015	901590 - Surveying equipment; parts and accessories for articles of heading no. 9015	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	901590
283	902519	ex	902519	n:1	Thermometers and pyrometers; (other than liquid filled, for direct reading), not combined with other instruments; ADD: Industrial thermometers; ADD: Industrial thermometers are used to control temperature in important measurement points in power plants, water delivery systems, and other environmental applications.	902519 - Thermometers and pyrometers; (other than liquid filled, for direct reading), not combined with other instruments	902519 - Thermometers and pyrometers; (other than liquid filled, for direct reading), not combined with other instruments	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	902519
284	902590	ex	902590	n:1	Hydrometers and similar floating instruments, barometers, hygrometers, psychrometers, thermometers, pyrometers; recording or not, any combination of these instruments, parts and accessories; ADD: Parts of 9025.19x; ADD: Parts and	902590 - Hydrometers and similar floating instruments, barometers, hygrometers, psychrometers, thermometers, pyrometers; recording or not, any combination of these instruments,	902590 - Hydrometers and similar floating instruments, barometers, hygrometers, psychrometers, thermometers, pyrometers; recording or not, any combination of these instruments,	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	902590

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					accessories of 9025.19x, with the associated environmental benefits.	parts and accessories	parts and accessories				
285	902610	ex	902610	n:1	Instruments and apparatus; for measuring or checking the flow or level of liquids; ADD: ; ADD: Meters, which check and record the level and/or flow of liquids, are used during auditing and testing to ensure the efficient operation of environmental systems such as water and wastewater treatment plants and hydroelectric facilities.	902610 - Instruments and apparatus; for measuring or checking the flow or level of liquids	902610 - Instruments and apparatus; for measuring or checking the flow or level of liquids	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	902610
286	902620	ex	902620	n:1	Instruments and apparatus; for measuring or checking pressure; ADD: ; ADD: Manometers, which measure pressure, can be in power plants, water delivery systems, and other applications such as monitoring indoor air.	902620 - Instruments and apparatus; for measuring or checking pressure	902620 - Instruments and apparatus; for measuring or checking pressure	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	902620

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
287	902680	ex	902680	n:1	Instruments and apparatus; for measuring or checking variables of liquids or gases (excluding pressure or the flow and level of liquids and those of heading no. 9014, 9015, 9028 and 9032); ADD: ; ADD: These instruments include heat meters that are used to monitor and measure the distribution of heat from geothermal or biomass district heating systems.	902680 - Instruments and apparatus; for measuring or checking variables of liquids or gases (excluding pressure or the flow and level of liquids and those of heading no. 9014, 9015, 9028 and 9032)	902680 - Instruments and apparatus; for measuring or checking variables of liquids or gases (excluding pressure or the flow and level of liquids and those of heading no. 9014, 9015, 9028 and 9032)	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	902680
288	902690	ex	902690	n:1	Instruments and apparatus; parts and accessories for those measuring or checking the flow, level, pressure or other variables of liquids or gases (excluding those of heading no. 9014, 9015, 9028 or 9032); ADD: ; ADD: Parts and accessories of measuring or checking the flow, level, pressure or other variables of liquids or gases, with the associated environmental benefits.	902690 - Instruments and apparatus; parts and accessories for those measuring or checking the flow, level, pressure or other variables of liquids or gases (excluding those of heading no. 9014, 9015, 9028 or 9032)	902690 - Instruments and apparatus; parts and accessories for those measuring or checking the flow, level, pressure or other variables of liquids or gases (excluding those of heading no. 9014, 9015, 9028 or 9032)	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	902690

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
289	902710		902710	1:1	Instruments and apparatus; gas or smoke analysis apparatus, for physical or chemical analysis; ADD: ; ADD: Gas analysers are designed to continuously monitor single or multiple gas components, and such an instrument is used to analyse air emissions from automobiles.	902710 - Instruments and apparatus; gas or smoke analysis apparatus, for physical or chemical analysis	902710 - -Gas or smoke analysis apparatus	TRUE	yes	X; based on description	902710
290	902720		902720	1:1	Chromatographs and electrophoresis instruments; ADD: ; ADD: Gas and liquid chromatographs can be used to monitor and analyse air pollution emissions, ambient air quality, and water quality. Electrophoresis instruments can be used to monitor and analyse materials such as particulates emitted from incinerators or from diesel exhaust.	902720 - Chromatographs and electrophoresis instruments	902720 - - Chromatographs and electrophoresis instruments	TRUE	yes	X; based on description	902720

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
291	902730		902730	1:1	Spectrometers, spectrophotometers and spectrographs; using optical radiations (UV, visible, IR); ADD: ; ADD: Spectrometers are used in a wide range of environmental applications, including to identify and characterise unknown chemicals and in environmental applications to detect toxins and identify trace contaminants. They can also be used for qualitative and quantitative analysis in quality control departments, environmental control, water management, food processing, agriculture and weather monitoring.	902730 - Spectrometers, spectrophotometers and spectrographs; using optical radiations (UV, visible, IR)	902730 - - Spectrometers, spectrophotometers and spectrographs using optical radiations (UV, visible, IR)	TRUE	yes	X; based on description	902730
292	902750		902750	1:1	Instruments and apparatus; using optical radiations (UV, visible, IR), (other than spectrometers, spectrophotometers and spectrographs); ADD: ; ADD: These instruments can be used for chemical, thermal, or optical analysis of samples, including water quality photometers, which are	902750 - Instruments and apparatus; using optical radiations (UV, visible, IR), (other than spectrometers, spectrophotometers and spectrographs)	902750 - -Other instruments and apparatus using optical radiations (UV, visible, IR)	TRUE	yes	X; based on description	902750

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					used to determine the concentration of a solution from its colour intensity.						
293	902780		902780	1:1	Instruments and apparatus; for physical or chemical analysis, for measuring or checking viscosity, porosity, expansion, surface tension or quantities of heat, sound or light, n.e.c. in heading no. 9027; ADD: ; ADD: Instruments under this subheading have a range of environmental uses. These include magnetic resonance instruments which are used in biologic and geologic analysis which have environmental applications; equipment to measure the thermal conductivity of materials, primarily rocks, to assess their geothermal energy potential; and mass spectrometers which are used to identify elements and	902780 - Instruments and apparatus; for physical or chemical analysis, for measuring or checking viscosity, porosity, expansion, surface tension or quantities of heat, sound or light, n.e.c. in heading no. 9027	902780 - -Other instruments and apparatus	TRUE	yes	X; based on description	902780

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					compounds which can be relevant to measuring contamination.						
294	902790		902790	1:1	Microtomes and parts and accessories thereof; ADD: ; ADD: Microtomes for preparing slices of samples for analysis for instruments in 9027.10x and 9027.80x, with the associated environmental benefits.	902790 - Microtomes and parts and accessories thereof	902790 - - Microtomes; parts and accessories 9027 - Instruments and apparatus for physical or chemical analysis (for example, polarimeters, refractometers, spectrometers, gas or smoke analysis apparatus); instruments and apparatus for measuring or checking viscosity, porosity, expansion, surface tension or the like; instruments and apparatus for measuring or checking quantities	TRUE	yes	X; based on description	902790

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
							of heat, sound or light (including exposure meters); microtomes.				
295	902810		902810	1:1	Meters; gas, supply or production meters, including calibrating meters thereof; ADD: Capable of electronic transmission of consumption data; ADD: Smart gas meters constantly monitor and record the amount of gas flowing to (or from) gas consumers. Meters are necessary to measure and regulate use and hence enable more efficient use of the resource.	902810 - Meters; gas, supply or production meters, including calibrating meters thereof	902810 - -Gas meters	TRUE	yes	X; based on description	902810
296	902820		902820	1:1	"Gas, liquid or electricity supply or production meters, including calibrating meters therefor: - Liquid meters"; ADD: ; ADD: Liquid flow meters can used to monitor the hot and cold water	902820 - Meters; liquid supply or production meters, including calibrating meters thereof	902820 - -Liquid meters	TRUE	yes	X; based on description	902820

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					consumption or to be used to determine the heat being generated by heating systems such as boilers or solar water heating systems. Also includes instruments to measure water current and assess hydroelectric resource potential.						
297	902830		902830	1:1	Meters; electricity supply or production meters, including calibrating meters thereof; ADD: Capable of electronic transmission of consumption data; ADD: Smart electricity meters constantly monitor and record the amount of electricity flowing to (or from) electricity consumers. This enables two- way communications of usage and pricing data between the consumer and the utility, enhancing the efficiency of the electric network and improving the integration of renewable and clean energy sources.	902830 - Meters; electricity supply or production meters, including calibrating meters thereof	902830 - -Electricity meters	TRUE	yes	X; based on description	902830

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
298	902890		902890	1:1	Meters; parts and accessories of gas, liquid, electricity supply or production meters, including calibrating meters thereof; ADD: Parts of 9028.10x and 9028.30x; ADD: Parts and accessories of 9028.10x and 9028.30x, with associated environmental benefits.	902890 - Meters; parts and accessories of gas, liquid, electricity supply or production meters, including calibrating meters thereof	902890 - -Parts and accessories 9028 - Gas, liquid or electricity supply or production meters, including calibrating meters therefor.	TRUE	yes	X; based on description	902890
299	903010	ex	903010	n:1	Instruments and apparatus; for measuring or detecting ionising radiations; ADD: ; ADD: Instruments under this subheading can be used for detecting the presence of ionising radiation and may, for instance, include Geiger counters that are useful in performing surveys for radioactivity contamination.	903010 - Instruments and apparatus; for measuring or detecting ionising radiations	903010 - Instruments and apparatus; for measuring or detecting ionising radiations	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	903010
300	903020	ex	903020	n:1	Oscilloscopes and oscillographs; ADD: ; ADD: Liquid meters include those designed to measure potable water consumption to allocate costs, assist the financial management of water systems, and encourage conservation of a	903020 - Oscilloscopes and oscillographs	903020 - - Oscilloscopes and oscillographs	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	903020

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					scarce resource. They are also part of electronic control equipment in wind turbines.						
301	903031	ex	903031	n:1	Multimeters; for measuring or checking voltage, current, resistance or power, without a recording device; ADD: ; ADD: Multimeters can be used to measure electrical flow, including current, resistance, voltage, frequency, and temperature, which is important in identifying electronic and electrical problems in equipment. These instruments are also essential for the functioning of renewable energy systems and in smart grid systems, helping to improve energy efficiency.	903031 - Multimeters; for measuring or checking voltage, current, resistance or power, without a recording device	903031 - Multimeters; for measuring or checking voltage, current, resistance or power, without a recording device	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	903031

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
302	903032	ex	903032	n:1	Multimeters; for measuring or checking voltage, current, resistance or power, with a recording device; ADD: ; ADD: Multimeters can be used to measure electrical flow, including current, resistance, voltage, frequency, and temperature, which is important in identifying electronic and electrical problems in equipment. These instruments are also essential for the functioning of renewable energy systems and in smart grid systems, helping to improve energy efficiency.	903032 - Multimeters; for measuring or checking voltage, current, resistance or power, with a recording device	903032 - Multimeters; for measuring or checking voltage, current, resistance or power, with a recording device	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	903032
303	903033	ex	903033	n:1	Instruments and apparatus; for measuring or checking voltage, current, resistance or power, without a recording device (excluding multimeters); ADD: ; ADD: Measuring devices used to measure electrical flow, including current, resistance, voltage, frequency, temperature and in this way are used	903033 - Instruments and apparatus; for measuring or checking voltage, current, resistance or power, without a recording device (excluding multimeters)	903033 - Instruments and apparatus; for measuring or checking voltage, current, resistance or power, without a recording device (excluding multimeters)	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	903033

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					to identify electronic and electrical problems in equipment.						
304	903039	ex	903039	n:1	<p>Instruments and apparatus; for measuring or checking voltage, current, resistance or power, with a recording device (excluding multimeters); ADD: ; ADD: Instruments under this subheading include single function meters, such as an ammeter, which measures current; a voltmeter, which measures voltage; and an ohmmeter, which measures resistance. These instruments can be used to identify faults in industrial and household appliances, and test the energy efficiency of power supplies.</p> <p>They are also essential in smart grid systems and help improving energy efficiency.</p>	903039 - Instruments and apparatus; for measuring or checking voltage, current, resistance or power, with a recording device (excluding multimeters)	903039 - Instruments and apparatus; for measuring or checking voltage, current, resistance or power, with a recording device (excluding multimeters)	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	903039

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
305	903082	ex	903082	n:1	Instruments and apparatus; for measuring or checking semiconductor wafers or devices; ADD: ; ADD: Instruments under this subheading can used for measuring or checking semiconductor wafers or devices, which are key components in solar power systems for generating renewable solar energy.	903082 - Instruments and apparatus; for measuring or checking semiconductor wafers or devices	903082 - Instruments and apparatus; for measuring or checking semiconductor wafers or devices	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	903082
306	903084	ex	903084	n:1	Instruments and apparatus; n.e.c. in heading no. 9030, with a recording device; ADD: ; ADD: Instruments under this subheading includes technologies such as spectrum analysers, used to detect and measure electromagnetic radiation generated from wireless communications; as well as microwave leak detectors.	903084 - Instruments and apparatus; n.e.c. in heading no. 9030, with a recording device	903084 - Instruments and apparatus; n.e.c. in heading no. 9030, with a recording device	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	903084
307	903089	ex	903089	n:1	Instruments and apparatus; n.e.c. in heading no. 9030, without a recording device; ADD: ; ADD: Recording componentry used to identify electrical	903089 - Instruments and apparatus; n.e.c. in heading no. 9030, without a recording device	903089 - Instruments and apparatus; n.e.c. in heading no. 9030, without a recording device	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	903089

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					problems and faults in equipment.						
308	903090	ex	903090	n:1	<p>Instruments, apparatus for measuring, checking electrical quantities, not meters of heading no.</p> <p>9028; parts and accessories, for measuring or detecting alpha, beta, gamma, x-ray, cosmic and other radiations; ADD: Parts of 9030.10,</p> <p>9030.20, 9030.31,</p> <p>9030.32, 9030.33,</p> <p>9030.39, 9030.82,</p> <p>9030.84, 9030.89; ADD: Parts of 9030.10, 9030.20,</p> <p>9030.31, 9030.32, 9030.33,</p> <p>9030.39, 9030.82, 9030.84,</p> <p>9030.89, with the</p>	903090 - Instruments, apparatus for measuring, checking electrical quantities, not meters of heading no. 9028; parts and accessories, for measuring or detecting alpha, beta, gamma, x-ray, cosmic and other radiations	903090 - Instruments, apparatus for measuring, checking electrical quantities, not meters of heading no. 9028; parts and accessories, for measuring or detecting alpha, beta, gamma, x-ray, cosmic and other radiations	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	903090

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					associated environmental benefits.						
309	903110	ex	903110	n:1	Machines; for balancing mechanical parts; ADD: ; ADD: Environmental applications of these machines include balancing of parts and equipment to minimise noise and vibration as well as equipment used in the measurement, recording, analysis and assessment of environmental samples or environmental impact.	903110 - Machines; for balancing mechanical parts	903110 - Machines; for balancing mechanical parts	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	903110
310	903120	ex	903120	n:1	Test benches for motors, generators, pumps, etc.; ADD: ; ADD: Of a kind used to test plant and machinery in the renewable energy sector.	903120 - Test benches	903120 - -Test benches	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	903120

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
311	903149	ex	903149	n:1	Optical instruments and appliances; for measuring or checking, n.e.c. in chapter 90; ADD: ; ADD: Instruments under this subheading have a range of environmental uses. These include meters assess to level of vibration in working machinery, which helps to diagnose machinery health and control costs; and profile projectors that can be used for critical tasks in engineering such as measuring and inspecting high precision, complex parts in many applications and industries.	903149 - Optical instruments and appliances; for measuring or checking, n.e.c. in chapter 90	903149 - Optical instruments and appliances; for measuring or checking, n.e.c. in chapter 90	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	903149
312	903180	ex	903180	n:1	Instruments, appliances and machines; for measuring or checking n.e.c. in chapter 90; ADD: ; ADD: This subheading includes a wide range of equipment used in the measuring, recording, analysis and assessment of environmental samples or environmental impact. This includes:	903180 - Instruments, appliances and machines; for measuring or checking n.e.c. in chapter 90	903180 - Instruments, appliances and machines; for measuring or checking n.e.c. in chapter 90	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	903180

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					gas detectors used to check for gas leaks (natural, propane, butane and methane); vibrometers that measure vibrations and assess structural and other effects of such vibrations; and refrigerant identifiers used to identify CFC, HCFC and/or HFC refrigerant in equipment.						
313	903190	ex	903190	n:1	Instruments, appliances and machines; parts and accessories for those measuring or checking devices of heading no. 9031; ADD: Parts of 9031.10, 9031.49 and 9031.80; ADD: Parts and accessories of 9031.10, 9031.49 and 9031.80, with the associated environmental benefits.	903190 - Instruments, appliances and machines; parts and accessories for those measuring or checking devices of heading no. 9031	903190 - Instruments, appliances and machines; parts and accessories for those measuring or checking devices of heading no. 9031	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	903190

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
314	903210	ex	903210	n:1	Regulating or controlling instruments and apparatus; automatic type, thermostats; ADD: ; ADD: Thermostats are used to control the efficiency of air conditioning, refrigeration or heating systems.	903210 - Regulating or controlling instruments and apparatus; automatic type, thermostats	Regulating or controlling instruments and apparatus; automatic type, thermostats	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	903210
315	903220	ex	903220	n:1	Regulating or controlling instruments and apparatus; automatic, manostats; ADD: ; ADD: Manostats measure and monitor pressure and are used for controlling pumps and chemical feed equipment in applications such as wastewater treatment.	903220 - Regulating or controlling instruments and apparatus; automatic, manostats	903220 - Regulating or controlling instruments and apparatus; automatic, manostats	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	903220
316	903281	ex	903281	n:1	Regulating or controlling instruments and apparatus; automatic, hydraulic or pneumatic; ADD: ; ADD: Control-related instruments and apparatuses under this subheading can be used for water treatment, wastewater treatment, air pollution control as well as efficient process controls for many industrial	903281 - Regulating or controlling instruments and apparatus; automatic, hydraulic or pneumatic	903281 - Regulating or controlling instruments and apparatus; automatic, hydraulic or pneumatic	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	903281

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					applications.						
317	903289	ex	903289	n:1	Regulating or controlling instruments and apparatus; automatic, other than hydraulic or pneumatic; ADD: Optional ex-outs may include: heliostats, temperature sensor for solar boiler/water heater; differential temperature controller for solar boiler/water heater.; ADD: Control-related instruments and apparatuses under this subheading include automatic voltage and current regulators which have renewable energy applications as well as other process control instruments and apparatus for temperature, pressure, flow and level, and humidity applications.	903289 - Regulating or controlling instruments and apparatus; automatic, other than hydraulic or pneumatic	903289 - Regulating or controlling instruments and apparatus; automatic, other than hydraulic or pneumatic	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	903289

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
318	903290	ex	903290	n:1	Regulating or controlling instruments and apparatus; automatic, parts and accessories; ADD: Parts of 9032.89/9032.89x; ADD: Parts and accessories of 9032.89/9032.89x, with the associated environmental benefits.	903290 - Regulating or controlling instruments and apparatus; automatic, parts and accessories	903290 - Regulating or controlling instruments and apparatus; automatic, parts and accessories	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	903290
319	940510		940510	1:1	Chandeliers and other electric ceiling or wall light fittings; excluding those used for lighting public open spaces or thoroughfares; ADD: Fittings powered by the kinetic energy of a falling weight; ADD: Gravity-powered lamps use the kinetic energy of a weight falling to produce live electricity, which can be used for the production of light, often in off-grid settings.	940510 - Chandeliers and other electric ceiling or wall light fittings; excluding those used for lighting public open spaces or thoroughfares	940510 - - Chandeliers and other electric ceiling or wall lighting fittings, excluding those of a kind used for lighting public open spaces or thoroughfares	TRUE	yes	X; based on description	940510
320	940510		940510	1:1	Chandeliers and other electric ceiling or wall light fittings; excluding those used for lighting public open spaces or thoroughfares; ADD: Lighting fittings using a LED light source; ADD: LED lighting is more energy- efficient than incandescent and	940510 - Chandeliers and other electric ceiling or wall light fittings; excluding those used for lighting public open spaces or thoroughfares	940510 - - Chandeliers and other electric ceiling or wall lighting fittings, excluding those of a kind used for lighting public open spaces or thoroughfares	TRUE	yes	X; based on description	940510

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					fluorescent lighting with consequent impact on energy use and GHG emissions as well.						
321	940520		940520	1:1	Lamps, electric; floor-standing or for table, desk or bedside; ADD: Lighting fittings using a LED light source; ADD: LED lighting is more energy- efficient than incandescent and fluorescent lighting with consequent impact on energy use and GHG emissions as well.	940520 - Lamps, electric; floor-standing or for table, desk or bedside	940520 - -Electric table, desk, bedside or floor-standing lamps	TRUE	yes	X; based on description	940520
322	940540		940540	1:1	Lamps and lighting fittings including searchlights and spotlights and parts thereof, not elsewhere specified or included; illuminated signs, illuminated name-plates and the like, having a permanently fixed light source, and parts thereof not elsewhere specified or included: - Other electric lamps and lighting fittings; ADD: ; ADD: Compared with the conventional	940540 - Lamps and light fittings; electric, n.e.c. in heading no. 9405	940540 - -Other electric lamps and lighting fittings	TRUE	yes	X; based on description	940540

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
					fluorescent or incandescent lamps, it is long life, low power consumption, energy saving and no toxic substance (mercury free).						
323	940560		940560	1:1	Illuminated signs, name plates and the like; ADD: Where the light fixture solely has integrated LEDs, and the fixture emits light solely from these sources; ADD: LED lighting is more energy-efficient than incandescent and fluorescent lighting with consequent impact on energy use and GHG emissions as well.	940560 - Illuminated signs, name plates and the like	940560 - - Illuminated signs, illuminated name-plates and the like	TRUE	yes	X; based on description	940560

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
324	961700		961700	1:1	<p>Vacuum flasks and other vacuum vessels, complete with cases; parts thereof other than glass inneres; ADD: Cryostats integrated with a superconducting device or have a dismantlable flange that is 90% or more of the main bore area; ADD: Superconductors are materials that conduct electricity with 100 per cent efficiency, losing nothing to resistance at temperatures above the boiling point of liquid nitrogen.</p> <p>Extraordinary superconducting and magnetic properties for wide-ranging technological applications including power transmission.</p>	961700 - Vacuum flasks and other vacuum vessels, complete with cases; parts thereof other than glass inneres	961700 - Vacuum flasks and other vacuum vessels, complete with cases; parts thereof other than glass inneres.	TRUE	yes	X; based on description	961700

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
325**	350790		350790	01:01	Enzymes	350790 - Enzymes and prepared enzymes; other than rennet and concentrates there+G502:G510of	350790 - Enzymes and prepared enzymes; other than rennet and concentrates there+G502:G510of	TRUE	yes	X; based on description	350790
326**	680620		680620	01:01	Slag wool – building insulation materials	680620 - Exfoliated vermiculite, expanded clays, foamed slag and similar expanded mineral materials (including intermixtures thereof)	680620 - Exfoliated vermiculite, expanded clays, foamed slag and similar expanded mineral materials (including intermixtures thereof)	TRUE	yes	X; based on description	680620

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
327**	282300		282300	01:01	Titanium oxides – raw material for production of solar panels	282300 - Titanium oxides	282300 - Titanium oxides	TRUE	yes	X; based on description	282300
328**	292111		292111	01:01	Perovskite – raw material for production of solar panels	292111 - Amine-function compounds; acyclic monoamines and their derivatives, methylamine, di- or trimethylamine and their salts	292111 - Amine-function compounds; acyclic monoamines and their derivatives, methylamine, di- or trimethylamine and their salts	TRUE	yes	X; based on description	292111

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
329**	292529		292529	01:01	Perovskite – raw material for production of solar panels	292529 - Imines and their derivatives; salts thereof; other than chlordimeform (ISO)	292529 - Imines and their derivatives; salts thereof; other than chlordimeform (ISO)	TRUE	yes	X; based on description	292529
330**	293339	ex	293339	n:1	Semiconductor additive material for production of solar panels	293339 - Heterocyclic compounds; containing an unfused pyridine ring (whether or not hydrogenated) in the structure, n.e.c. in 2933.3	293339 - Heterocyclic compounds; containing an unfused pyridine ring (whether or not hydrogenated) in the structure, n.e.c. in 2933.3	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	293339

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
331**	392010		392010	01:01	Film used in the production of photovoltaic cells	392010 - Plastics; plates, sheets, film, foil and strip (not self-adhesive), of polymers of ethylene, non-cellular and not reinforced, laminated, supported or similarly combined with other materials	392010 - Plastics; plates, sheets, film, foil and strip (not self-adhesive), of polymers of ethylene, non-cellular and not reinforced, laminated, supported or similarly combined with other materials	TRUE	yes	X; based on description	392010
332**	853710	ex	853710	n:1	Solar tracking controllers	853710 - Boards, panels, consoles, desks and other bases; for electric control or the distribution of electricity, (other than switching apparatus of heading no. 8517), for a voltage not exceeding 1000 volts	853710 - Boards, panels, consoles, desks and other bases; for electric control or the distribution of electricity, (other than switching apparatus of heading no. 8517), for a voltage not exceeding 1000 volts	TRUE	yes	X; although HS2017 subheading is the result of merging/splitting/rearranging of HS2012 subheadings, descriptions of the subheadings seem to refer to the same product	841280

id	hs2017	ex	hs2012	rel	eg_description	hs2017_description	hs2012_description	same code	correct match	coverage	HS2012
333**	841280		841280	01:01	Windmills, turbines	841280 - Engines; pneumatic power engines and motors, n.e.c. in heading no. 8412	841280 - Engines; pneumatic power engines and motors, n.e.c. in heading no. 8413	TRUE	yes	X; based on description	841280
334**	848310		848310	01:01	Transmission shafts for wind turbines	848310 - Transmission shafts (including cam shafts and crank shafts) and cranks	848310 - Transmission shafts (including cam shafts and crank shafts) and cranks	TRUE	yes	X; based on description	848310