

# WORLD TRADE ORGANIZATION

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Committee on Trade and Environment Special Session  
Negotiating Group on Market Access

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## INITIAL LIST OF ENVIRONMENTAL GOODS

### Submission by the United States

#### Paragraph 31(iii)

The following communication, dated 30 June 2005, is being circulated at the request of the Delegation of the United States.

1. The United States welcomes the progress made to date on environmental goods in the Committee on Trade and Environment in Special Session (CTESS). Subparagraph 31(iii) appears to hold the greatest potential in Paragraph 31 for meaningful and substantive results before Trade Ministers meet in Hong Kong. With a view to contributing to the momentum of these negotiations and to moving the discussions forward in a concrete, pragmatic manner, the United States is proposing an initial list of environmental goods in the attached annex. The United States developed this list following consultations with U.S. stakeholders, advisory committees, interested agencies, and the U.S. Congress.

2. The U.S. list is based on a practical, bottom-up approach to identifying environmental goods, an approach which the United States outlined in some detail in a previous submission (TN/TE/W/34). This approach focuses on end-use criteria (e.g., goods which are used to clean the environment or to contain or prevent pollution), and does not rely on product distinctions based on process or production methods (PPM-based criteria) or end-use certificates.

3. While the U.S. list is based on the APEC approach, it goes beyond the APEC list to cover an additional 46 products (156 products total), most of which fall into the renewable energy or natural resource protection categories. The specific environmental category of each good is identified in the annex to this paper. For purposes of transparency, the United States has included import and tariff data for all goods identified, and indicated cases where a good is also included on another list, including the list of another Member (at the HS 6 digit level).

4. The United States offers this initial list for the consideration of Members in an effort to move the discussions forward, but may at a later point add to this list, or delete from it, during the course of our discussions on environmental goods. The United States looks forward to working with Members in moving closer to the goal of an agreed list of environmental goods in the coming months and urges other delegations to fully engage in these important discussions, which hold potential benefits for trade, environment and development for all WTO Members. We also agree that the environmental industry is continually evolving and that the CTESS should give consideration to how best to ensure that an agreed list of environmental goods reflects new technologies.

5. Given the nature of this issue and U.S. practice with previous papers submitted under Paragraph 31(iii), this paper is being submitted to both the CTESS and the Non-Agricultural Market Access Negotiating Group (NAMA).

### **Key to Reading Annex A: United States Initial Environmental Goods List**

#### Columns A, B, C and D: HS 6, HS 6 Description, Ex, and Additional Product Description within HS 6 Category

1. Proposed environmental products are listed in Harmonized System (HS) categories at the 6 digit level. In certain cases, the entire HS 6 category is not exclusively used for an environmental purpose, and only part of the category is intended as an environmental good. For those products an additional product description is given to help identify the environmental good within the 6 digit category. For example, one proposed product is pumps for liquids (HS 841360); however, only “submersible mixer pumps to circulate water in waste water treatment process; sewage pumps, screw type” are intended as environmental goods, not all pumps for liquids. These additional product descriptions are coded with an “ex” as they could be incorporated at the narrower, national tariff line level (i.e., the eight- or nine-digit level, as appropriate).
2. For those products that do not contain an additional product description or an “ex,” we propose that the entire 6 digit category be considered for liberalization because the product is an important element of an environmental technology.

#### Column E: Environmental Category

3. This column conveys the relevance of each product to environmental protection. We have used the following environmental categories, most of which have been used previously by other WTO Members (e.g., Canada, Korea, New Zealand). We have also added one new category, natural resources protection.

APC= Air Pollution Control  
RS = Recycling Systems  
S/H = Solid/Hazardous Waste Management  
H/E = Heat/Energy Management  
PWT = Potable Water Treatment  
WWM = Waste Water Management  
M/A = Environmental Monitoring, Analysis and Assessment  
R/C = Remediation/Clean-up of Soil and Water  
NV = Noise/Vibration Abatement  
REP = Renewable Energy Plant  
EPP = Environmentally Preferable Products based on end-use or disposal characteristics  
NR = Natural Resources Protection

#### Column F: Average MFN Tariff Rate (2001)

4. The tariff rate is based on the 2001 MFN rate. The U.S. environmental goods list was developed at the HS 6 digit level and the tariff rate is a simple average of all the national line tariffs that comprise each HS 6 digit category. The U.S. tariff rate is for 2001 because 2001 is the base year tariff currently used in the WTO Non-Agricultural Market Access Negotiations.

#### Column G: U.S. U.S. Imports from the World (Average 1999-2001)

5. The source of import data is the United States International Trade Commission and the data reported is the average value of imports from years 1999 to 2001. This is the reference period with which Members currently submit trade data to the Non-Agricultural Market Access Negotiating

Committee. The import data is provided at the HS 6 digit level which may be broader than the actual trade for the proposed environmental good.

Column H: Overlap with Other Members' Proposed Lists (at HS 6 level)

6. For purposes of transparency, this column indicates if the U.S. proposed product is included on another WTO Member's proposed environmental goods list, as of the date of this submission to the CTESS. This column indicates overlap *only* at the HS 6 digit level. Products without any overlap are additional products proposed by U.S. industry and other stakeholders, advisory committees, or interested U.S. government agencies.

Column I: Overlap with Regional and International Organizations' Lists (at HS 6 level)

7. For purposes of transparency, this column indicates if the U.S. proposed product is included on the environmental goods list of an organization such as APEC, OECD, or UNCTAD, as of the date of this proposal to the CTESS. This column indicates overlap *only* at the HS 6 digit level. Products without any overlap are additional products proposed by U.S. industry and other stakeholders, advisory committees, or interested U.S. government agencies.

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Column A	Column B	Column C	Column D	Column E	Column F	Column G	Column H	Column I
HS 6	HS 6 Description	Ex	Additional Product Description within HS 6 Category	Environmental Category	Average MFN Tariff Rate (2001)	U.S. Imports from World 1999-2001 (Average in US\$ Millions)	Overlap with other Members' Proposed Lists	Overlap with Regional & Int'l Organizations' Lists
391721	TUBES, PIPES & HOSES, RIGID OF POLYMERS OF ETHYLENE	ex.	Tubes, pipes and hoses, rigid, of polymers of ethylene (specifically Piping for methane gas removal/reuse, leachate collection, etc. from landfills)	S/H	3.1	33.13		
391722	TUBES, PIPES & HOSES, RIGID, POLYMERS OF PROPYLENE	ex.	Tubes, pipes and hoses, rigid, of polymers of propylene (specifically Piping for methane gas removal/reuse, leachate collection, etc. from landfills)	S/H	3.1	4.75		
391723	TUBES, PIPES & HOSES, RIGID, POLYMER VINYL CHLORIDE	ex.	Tubes, pipes and hoses, rigid, of polymers of vinyl chloride (specifically Piping for methane gas removal/reuse, leachate collection, etc. from landfills)	S/H	3.1	84.27		
392010	PLATES, SHEETS, FILM, FOIL AND STRIP OF PLASTICS, NOT SELF-ADHESIVE, NON-CELLULAR, NOT REINFORCED OR LAMINATED ETC., OF POLYMERS OF ETHYLENE	ex.	Other plates, sheets, film foil and strip, of plastics, noncellular and not reinforced, laminated, supported or similarly combined with other materials; of polymers of ethylene (specifically HDPE or flexible membrane landfill liners and/or covers for methane collection)	S/H and REP	4.2	431.82		

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HS 6	HS 6 Description	Ex	Additional Product Description within HS 6 Category	Environmental Category	Average MFN Tariff Rate (2001)	U.S. Imports from World 1999-2001 (Average in US\$ Millions)	Overlap with other Members' Proposed Lists	Overlap with Regional & Int'l Organizations' Lists
392690	ARTICLES OF PLASTICS, NESOI	ex.	Other articles of plastics and articles of other materials of headings 3901 to 3914; other (specifically Biofilm medium that consists of woven fabric sheets that facilitate the growth of bio-organisms; 2) rotating biological contactor consisting of stacks of large HDPE plates that facilitate the growth of bio-organisms.)	WWM	4.5	2,875.16	CT, EC, KOR, NZ	APEC, OECD
392690	ARTICLES OF PLASTICS, NESOI	ex.	Other articles of plastics and articles of other materials of headings 3901 to 3914; other (specifically Rotating biological contactor consisting of stacks of large HDPE plates that facilitate the growth of bio-organisms.)	WWM	--	--	CT, EC, KOR	APEC, OECD
460120	MATS, MATTING AND SCREENS OF VEGETABLE MATERIALS	ex.	Mats, matting, and screens of vegetable materials (specifically Erosion control matting (biodegradable))	WWM	3.2	17.43	CA, EC, NZ	APEC
460120	MATS, MATTING AND SCREENS OF VEGETABLE MATERIALS	ex.	Mats, matting, and screens of vegetable materials (specifically Ecologically Safe ground covers (Biodegradable))	NR	--	--	EC, NZ	APEC
530410	SISAL OTHER TEXTILE FIBERS OF THE GENUS AGAVE RAW			EPP	0.0	0.18		

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530490	SISAL OTH TEXT FIB GEN AGAVE TOW WASTE NT SP OTHER			EPP	0.0	0.09		
530890	YARN OF VEGETABLE TEXTILE FIBERS NESOI			EPP	1.2	0.30		
560314	NONWOVENS, OF MMF WEIGHING > 150 G/M2	ex.	Non-wovens, whether or not impregnated, coated, covered or laminated: of manmade filaments; weighing more than 150 g/m2 (specifically Fabric of polyethylene/polypropylene/nylon for filtering wastewater.)	WWM	0.0	46.97	CT, EC, KOR	APEC
560710	TWINE CORD ROPE & CABLE OF JUTE OR OTHER TEX BAST			EPP	1.2	3.97	NZ	UNCTAD
560721	TWINE CORD ROPE CABLE O SISAL BINDER O BALER TWINE			EPP	0.0	41.62	NZ	
560729	TWINE, CORD, ROPE & CABLE, OF SISAL FIBERS, NESOI			EPP	4.7	10.64		
560811	MADE-UP FISHING NETS, MANMADE TEXTILE MATERIALS	ex.	Made-up fishing nets, manmade textile materials (specifically Made up fishing nets that incorporate turtle excluder devices)	NR	10.7	7.75		

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560890	KNOT NET OF TWINE MADE-UP FISH NET TEX MAT NESOI	ex.	Knot net of twine made-up fish net textile materials (specifically Fish netting and fishing nets of other than man-made textile. Made up fishing nets that incorporate turtle excluder devices.)	NR	11.7	5.06		
591190	TEXTILE PRODUCTS ETC FOR TECHNICAL USES NESOI	ex.	Textile products and articles, for technical uses, specified in note 7 to this chapter; other (specifically materials)	WWM	4.9	60.29	KOR	APEC
630510	SACK & BAG FOR PKG GOOD JUTE/BAST FIB OF HEAD 5303			EPP	0.0	11.49	NZ	UNCTAD
690210	REFRACT BRICKS ETC NESOI, OV50% MGO, CAO OR CR2O3	ex.	Refractory bricks, blocks, tiles and similar refractory ceramic constructional goods, other than those of siliceous fossil meals or similar siliceous earths; containing by weight, singly or together, more than 50% of the elements Mg, Ca or Cr, expressed as MgO, CaO or Cr2O3 (specifically Industrial incineration)	M/A, SH	0.0	99.85		APEC
690220	REFRACT BRICKS ETC NESOI, OVER 50% AL2O3 OR SI02	ex.	Refractory bricks, blocks, tiles and similar refractory ceramic constructional goods, other than those of siliceous fossil meals or similar siliceous earths; containing	M/A, SH	0.0	152.14		APEC

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			by weight more than 50% of alumina (Al <sub>2</sub> O <sub>3</sub> ), of silica (SiO <sub>2</sub> ) or of a mixture or compound of these products (specifically Industrial incineration)					
690290	REFRACT BRICKS ETC NESOI	ex.	Refractory bricks, blocks, tiles and similar refractory ceramic constructional goods, other than those of siliceous fossil meals or similar siliceous earths; other (specifically Industrial incineration)	M/A, SH	0.0	44.57		APEC
690310	OTH REFRAC CERAMIC GDS W GRAPHITE/CARBON OV 50PCT	ex.	Other refractory ceramic goods (for example, retorts, crucibles, muffles, nozzles, plugs, supports, cupels, tubes, pipes, sheaths and rods), other than those of siliceous fossil meal or of similar siliceous earths; containing by weight more than 50% of graphite or other carbon or of a mixture of these products (specifically Laboratory refractory equipment)	M/A	0.0	17.81	CA, KOR, NZ	APEC
690320	OTH REFRAC CERAM GDS NES ALUMINA/SILICA OV 50 PCT	ex.	Other refractory ceramic goods (for example, retorts, crucibles, muffles, nozzles, plugs, supports, cupels, tubes, pipes, sheaths and rods), other than those of siliceous	M/A	0.0	70.99	CA, KOR, NZ	APEC



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			fossil meal or of similar siliceous earths; containing by weight more than 50% of alumina (Al <sub>2</sub> O <sub>3</sub> ) or of a mixture or compound of alumina and silica (SiO <sub>2</sub> ) (specifically Laboratory refractory equipment)					
690390	REFRACTORY CERAMIC GOODS (RETORT, PLUG ETC) NESOI	ex.	Other refractory ceramic goods (for example, retorts, crucibles, muffles, nozzles, plugs, supports, cupels, tubes, pipes, sheaths and rods), other than those of siliceous fossil meal or of similar siliceous earths; other (specifically Laboratory refractory equipment)	M/A	0.0	75.01	CA, KOR, NZ	APEC
690919	CERAMIC WARES FOR LABORATORY ETC USE NESOI	ex.	Ceramic wares for laboratory, chemical or other technical uses; other (specifically Laboratory Equipment)	M/A	2.0	41.51	CA, JPN, NZ	APEC
701710	LAB, HYGIENIC, PHARMACEUT GLSWR, FUSD QURTZ/SILICA			M/A	2.3	9.17	CA, JPN, KOR, NZ	APEC
701720	LAB, HYGINC, PHARM GLSWR W LIN COEF NOV 5X10-6 NES			M/A	6.7	6.15	CA, JPN, KOR, NZ	APEC
701790	LABORATORY, HYGENIC OR PHARMACEUT GLASSWARE NESOI			M/A	3.4	33.73	CA, JPN, NZ	APEC
730820	TOWERS AND LATTICE			REP	1.7	34.98		

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	MASTS OF IRON OR STEEL							
730900	TANKS ETC, OVER 300 LITER CAPACITY, IRON OR STEEL	ex.	Reservoirs, tanks, vats and similar containers for any material (other than compressed or liquefied gas), of iron or steel, of a capacity exceeding 300 liters, whether or not lined or heat insulated, but not fitted with mechanical or thermal equipment (specifically Tanks or vats for anaerobic digesters for biomass gasification)	REP	0.0	124.23	CA, EC, KOR	OECD
761100	TANKS ETC, OVER 300 LITER CAPACITY, ALUMINUM	ex.	Aluminum reservoirs, tanks, vats and similar containers for any material (other than compressed or liquefied gas), of iron or steel, of a capacity exceeding 300 liters, whether or not lined or heat insulated, but not fitted with mechanical or thermal equipment (specifically Tanks or vats for anaerobic digesters for biomass gasification)	REP	2.6	8.18		
840211	WATERTUBE BOILERS STEAM PRODUCTION EXC 45 T PER HR			REP	5.2	85.77		
840212	WATERTUBE BOILERS STEAM PROD NOT EXC 45 T PER HOUR			REP	4.3	7.89		

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840219	VAPOR GENERATING BOILERS, NESOL, INC HYBRID			REP	5.2	7.82		
840220	SUPER-HEATED WATER BOILERS			REP	3.3	22.00		
840290	SUPER-HEATED WATER BOILERS & STEAM GENRTN BOIL PTS			REP	4.3	262.02		
840410	AUXILIARY PLANT FOR STEAM, WATER AND CENTRAL BOILR			REP, APC	3.5	34.69	CA, JPN, KOR, NZ	APEC
840420	CONDENSERS FOR STEAM OR OTHER VAPOR POWER UNITS			REP, APC	5.6	6.25	CA, JPN, NZ	APEC
840490	PARTS FOR AUX PLT FOR BLRS,COND FOR STM,VPR PR UNT			REP	3.5	49.04		
840510	PRODUCER GAS, WTR GAS, ACETYLENE GAS, WTR PRO GAS GEN	ex.	Producer gas or water gas generators, with or without their purifier; acetylene gas generators and similar water process gas generator, with or without their purifiers (specifically Include only those with purifiers.)	APC	0.0	21.22	CA, JPN, KOR, NZ	APEC
840681	TURBINES, STEAM & OTHER VAPOR, OVER 40 MW,N.E.S.O.I	ex.	Stationary steam turbines over 40 MW	REP	3.4	114.63		

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840682	TURBINES, STEAM AND VAPOR,NOT OVER 40 MW,N.E.S. O.I	ex.	Stationary steam turbines not over 40 MW	REP	3.4	17.33		
840682	TURBINES, STEAM AND VAPOR,NOT OVER 40 MW, N.E.S.O.I	ex.	Other vapor turbines	REP	--	--		
840690	PARTS FOR STEAM AND OTHER VAPOR TURBINES	ex.	Parts suitable for use with stationary steam turbines over 40MW, stationary steam turbines not over 40 MW, other vapor turbines.	REP	3.4	397.18		
840991	SPARK-IGNITION INT COMBUSTION PISTON ENG PTS NESOI	ex.	Parts suitable for use solely or principally with the engines of heading No. 8407 or 8408; suitable for use solely or principally with spark-ignition internal combustion piston engines. (specifically Industrial Mufflers)	N/V	2.0	3,353.56	CT, JPN, KOR	APEC, OECD
840999	SPARK-IGNITION RECIPROCATING INT COM PISTN ENG PTS	ex.	Parts suitable for use solely or principally with the engines of heading No. 8407 or 8408; other (specifically Industrial Mufflers)	APC	1.3	1,501.25	JPN, KOR	APEC, OECD
841011	HYDRAULIC TURBINES, WATER WHEELS, NOT OV 1,000 KW			REP	3.8	1.96	CA, EC, JPN, KOR, NZ	APEC, OECD
841012	HYDRAULIC TURB & WTR WHEELS POWER>1,000KW<10,000KW			REP	3.8	0.25	CA, JPN, KOR, NZ	APEC, OECD

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841013	HYDRAULIC TURBINES AND WATER WHEELS POWER>10,000KW			REP	3.8	3.00	CA, JPN, KOR, NZ	APEC, OECD
841090	PARTS, INC REGULATORS, FOR HYDRAULIC TURB & WTR WH			REP	3.8	29.14	CA, EC, JPN, KOR, NZ	APEC, OECD
841181	GAS TURBINES OF A POWER NOT EXCEEDING 5,000 KW	ex.	Other gas turbines, not exceeding 5,000 kW	REP	1.3	51.07	QAT	
841182	GAS TURBINES OF A POWER EXCEEDING 5,000 KW	ex.	Other gas turbines exceeding 5,000 kW	REP	1.3	748.56	QAT	
841350	RECIPROCATING POSITIVE DISPLACEMENT PUMPS, NESOI			WWM	0.0	355.13	CA, JPN, KOR, NZ	OECD
841360	ROTARY POSITIVE DISPLACEMENT PUMPS, NESOI	ex.	Pumps for liquids, whether or not fitted with a measuring device; other rotary positive displacement pumps (specifically Submersible mixer pump to circulate water in wastewater treatment process; sewage pumps, screw type)	WWM	0.0	404.34	CA, CT, JPN, KOR, NZ	APEC, OECD
841370	CENTRIFUGAL PUMPS, NESOI	ex.	Pumps for liquids, whether or not fitted with a measuring device; other centrifugal pumps (specifically Centrifugal pumps lined to prevent corrosion; centrifugal sewage pumps)	WWM	0.0	448.36	CA, CT, JPN, KOR, NZ	APEC, OECD

Column A	Column B	Column C	Column D	Column E	Column F	Column G	Column H	Column I
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841381	PUMPS FOR LIQUIDS, NESOI	ex.	Pumps for liquids, whether or not fitted with a measuring device; other pumps (specifically Wind Turbine Pump)	PWT, WWM	0.0	255.11	CA, JPN, KOR, NZ	APEC, OECD
841410	VACUUM PUMPS			M.A	2.5	565.27	CA, JPN, NZ	APEC, OECD
841459	FANS, NESOI			APC	1.5	793.35	CA, EC, JPN, KOR, NZ	APEC
841480	AIR/GAS PUMPS, COMPRESSORS AND FANS ETC, NESOI			M/A,APC	0.9	824.15	CA, CT, EC, JPN, KOR, NZ	APEC, OECD
841780	IND OR LAB FURNACES & OVENS, INC INCIN,N/ELE,NESOI	ex.	Industrial or laboratory furnaces and ovens, including incinerators, non-electric; other than bakery ovens and furnaces for treatment of ores (specifically Waste Incinerators)	S/H, APC	3.9	29.62	CA, CT, EC, JPN, KOR, NZ	APEC, OECD
841790	PARTS OF IND OR LAB FURN & OVEN, INCINERAT, NONELEC	ex.	Parts of Industrial or Laboratory Furnaces and Ovens, Including Incinerators, Non-electric (specifically Parts of waste incinerators)	S/H. APC	3.9	90.30	CA, CT, EC, JPN, KOR, NZ	APEC, OECD
841919	INSTANT/STORAGE WATER HEATRS EX INSTANT GAS WTR NE	ex.	Other instantaneous or storage water heaters, non-electric (specifically Solar Water Heaters)	REP, APC	0.0	157.23	CA, JPN, NZ	APEC, OECD

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841940	DISTILLING OR RECTIFYING PLANT			PWT, M/A, RS	0.0	69.99	CA, CT, JPN, NZ	APEC
841950	HEAT EXCHANGE UNITS, INDUSTRIAL TYPE			REP	2.8	239.36	CA, EC, JPN	APEC, OECD
841960	MACHINERY FOR LIQUEFYING AIR OR GAS			M/A, APC	2.8	44.70	CA, CT, JPN, KOR, NZ	APEC, OECD
842119	CENTRIFUGES, NESOI			M/A	0.7	143.46	CA, JPN, KOR, NZ	APEC, OECD
842121	WATER FILTERING OR PURIFYING MACHINERY & APPARATUS			WWM, M/A	0.0	340.96	CA, CT, EC, JPN, KOR	APEC, OECD
842129	FILTER/PURIFY MACHINE & APPARATUS FOR LIQUID NESOI			WWM, M/A	0.0	407.01	CA, EC, JPN, KOR, NZ	APEC, OECD
842139	FILTER/PURIFY MACHINE & APPARATUS FOR GASES NESOI			APC, M/A	0.0	1,172.55	CA, CT, EC, JPN, KOR	APEC, OECD
842191	PARTS OF CENTRIFUGES, INCLUDING CENTRIFUGAL DRYERS	ex.	Parts of Centrifuges, Including Centrifugal Dryers (specifically Centrifuges, Accessories & Parts; except clothes dryers and clothes dryer furniture)	M/A	0.0	79.75	CA, JPN, KOR, NZ	APEC, OECD
842199	FILTER/PURIFY MACHINE & APPARATUS PARTS			APC	0.0	999.51	CA, CT, JPN, KOR	APEC, OECD
842220	MACH FOR CLEAN OR DRY BOTTLES OR OTHER CONTAINERS			RS, S/H	0.0	48.15	CA, JPN, KOR	APEC, OECD

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842833	CONT-ACT ELEV & CONVEY, FR GOODS OR MATL, BELT TYPE	ex.	Other continuous-action elevators and conveyors, for goods or materials; other, belt type (specifically Belt-type above ground conveyor used to transfer solids or slurries between plants)	WWM	0.0	139.80	CT, JPN, KOR, NZ	APEC
842940	TAMPING MACHINES AND ROAD ROLLERS, SELF-PROPELLED	ex.	Tamping Machines and Roal Rollers (specifically Self-propelled sanitary landfill compactors)	S/H	0.0	245.14		
843680	AGRIC, HORT, FOREST, BEE-KEEPING MACHINERY NESOI	ex.	Other agricultural, horticultural, forestry, poultry-keeping or bee-keeping machinery (specifically Hot water weed killing system (Includes grinders, shredders, and chippers used by wood and waste industries to reduce volumes and ceate such products as boiler fuel, mulch, and compost, and to grind Municipal Solid Waste (MCW) and certain construction).)	WWM	0.0	147.18	JPN, NZ	APEC
843999	PTS FOR MACHY MKG OR FINISHING PAPER OR PAPERBOARD	ex.	Machinery for making pulp of fibrous cellulosic material or for making or finishing paper or paperboard (other than the machinery of heading 8419( parts thereof, other (specifically Parts for Forest Machinery. See Item HS 843680 (Forest Machinery)-	S/H	0.0	364.24		



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			Classified Differently, but similar to the equipment covered under HS 847982.)					
846291	HYDRAULIC PRESSES FOR WORKING METAL	ex.	Machine tools for working metal, other than punching or notching and combined punching and shearing; hydraulic presses (specifically Shredders/balers for metals; hydraulic)	S/H	4.4	162.59	JPN, KOR	APEC
846596	SPLIT SLICE ETC MACH FOR WORKNG WOOD CORK BONE ETC	ex.	Splitting, Slicing or Paring Machines (specifically Portable Recyclers(grinders./shredders)Portable (Wood and waste recycling machinery))	S/H	2.4	23.87		
846599	MACH TOOLS FOR WORKING WOOD CORK BONE ETC NESOI	ex.	Other parts of Splitting, Slicing or Paring Machines (specifically Tree Delimber/debarker/Chipper machinery (Portable Recyclers (grinders./shredders))	S/H	1.2	123.85		
847290	OFC MACH FOR AUTOMATIC BANKNOTE DISPENSERS, ETC	ex.	Other office machines (specifically Paper shredders)	S/H	0.9	835.29	JPN, KOR	APEC
847410	SORTING ETC MACHINES FOR EARTH STONE MINERAL SUBS	ex.	Sorting, screening, separating or washing machines (specifically Machines of a kind for use in screening and washing coal)	S/H	0.0	151.26	CA, JPN	APEC

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847410	SORTING ETC MACHINES FOR EARTH STONE MINERAL SUBS	ex.	Sorting, screening, separating or washing machines (specifically Waste foundry sand reclamation equipment)	RS	--	--	CA, KOR, NZ	APEC
847432	MACH FOR MIXING MINERAL SUBSTANCES WITH BITUMEN	ex.	Machines for mixing mineral substances with bitumen (specifically Asphalt recycle equipment)	RS	0.0	1.64	JPN, KOR, NZ	APEC
847982	MIXING KNEADING CRUSHING GRINDING ETC MACHIN NESOI	ex.	Mixing, kneading, crushing, grinding, screening, sifting, homogenizing emulsifying or stirring machines (specifically Agitator for wastewater treatment )	WWM	0.0	218.98	CT, EC, JPN, KOR, NZ	APEC, OECD
847982	MIXING KNEADING CRUSHING GRINDING ETC MACHIN NESOI	ex.	Mixing, kneading, crushing, grinding, screening, sifting, homogenizing emulsifying or stirring machines (specifically Other than kneading machinery)	RS	--	--	CT, EC, JPN, KOR, NZ	APEC, OECD
847989	MACH & MECHANICAL APPL W INDIVIDUAL FUNCTION NESOI	ex.	Machines and mechanical appliances having individual functions, not elsewhere specified or included in this chapter, other (specifically Radioactive waste press)	S/H	0.9	356.57	CA, CT, EC, JPN, NZ	APEC, OECD
847989	MACH & MECHANICAL APPL W INDIVIDUAL FUNCTION NESOI	ex.	Machines and mechanical appliances having individual functions, not elsewhere specified or included in this chapter, other	WWM	--	--	CA, CT, EC, JPN, NZ	APEC, OECD

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			(specifically Trash Compactors)					
847990	PTS OF MACH/MECHNCL APPL W INDVDUL FUNCTION NESOI	ex.	Parts of Machines and mechanical appliances having individual functions, not elsewhere specified or included in this chapter, other (specifically Parts of trash compactors)	PWT, SH	0.0	1,439.31	CA, EC, JPN, NZ	APEC
848340	GEARS; BALL OR ROLLER SCREWS; GEAR BOXES, ETC	ex.	Gears and gearing and other speed changers (specifically For wind turbines)	REP	2.1	1,537.83		
848360	CLUTCHES & SHAFT COUPLINGS (INC UNIVERSAL JOINTS)	ex.	Clutches and universal joints (specifically For wind turbines)	REP	2.8	181.60		
850161	AC GENERATORS (ALTERNATORS) <=75 KVA OUTPUT	ex.	AC generators not exceeding 75 kVA (specifically For all electricity generating renewable energy plants)	REP	2.5	116.92		
850162	AC GENERATORS (ALTERNATOR) > 75 KVA BUT =< 375KVA	ex.	AC generators exceeding 75 kVA but not 375 kVA (specifically For all electricity generating renewable energy plants)	REP	2.5	24.34		
850163	AC GENERATORS (ALTERNATOR) > 375 KVA BUT =< 750KVA	ex.	AC generators not exceeding 375 kVA but not 750 kVA (specifically For all electricity generating renewable energy plants)	REP	2.5	17.62		
850164	AC GENERATORS OF AN OUTPUT EXCEEDING 750 KVA	ex.	AC generators exceeding 750 kVA (specifically For all electricity generating renewable energy plants)	REP	2.4	616.39		

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			plants)					
850231	GENERATING SETS, ELECTRIC, WIND-POWERED			REP, S/H	2.5	397.71	CA, EC, JPN, NZ	APEC
850239	GENERATING SETS, ELECTRIC, NESOI	ex.	Other generating sets (specifically Gas turbine sets for biomass plants)	REP	2.5	753.36	EC, NZ	
850300	PARTS OF ELECTRIC MOTORS, GENERATORS & SETS	ex.	Parts for equipment classified under 8501 and 8502 (specifically Parts of gas and wind powered turbines)	REP	3.1	1,215.74		
850440	STATIC CONVERTERS; ADP POWER SUPPLIES	ex.	Other static converters (specifically Inverters for photovoltaic solar equipment)	REP	0.6	4,830.99		
850590	ELECTROMAGNETS, CLAMPS, SIMILR HLDNG DEVICES & PART	ex.	Electro-magnets; other, including parts (specifically Electromagnet)	S/H	0.7	387.10	CA, CT, JPN, NZ	APEC
851410	INDUSTRIAL, LABORATORY FURNACES, OVENS, RESISTANCE	ex.	Industrial or Laboratory Furnaces and Ovens; electric, resistance heated (specifically Waste incinerators or other waste treatment apparatus )	S/H	0.0	104.74	CA, CT, JPN, NZ	APEC, OECD
851420	INDUSTRIAL, LABORATORY FURNACES, OVENS, INDN, DLTC	ex.	Industrial or Laboratory Furnaces and Ovens; electric, induction or dielectric (specifically Waste incinerators or other waste treatment apparatus )	S/H	0.0	25.00	CA, CT, JPN, KOR, NZ	APEC, OECD
851430	INDUSTRIAL, LABORATORY FURNACES,	ex.	Industrial or Laboratory Furnaces and Ovens, electric, other	S/H	0.4	122.03	CA, CT, JPN, NZ	APEC, OECD

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	OVENS, NESOI		(specifically Waste incinerators or other waste treatment apparatus )					
851490	PARTS FOR IND, LAB FURNACES,OVENS OR HEATING EQUIP	ex.	Parts of industrial or laboratory electric furnaces and ovens or other laboratory induction or dielectric heating equipment (specifically Parts of Waste incinerators)	S/H	0.0	169.21	CA, CT, JPN, KOR, NZ	APEC, OECD
853949	ULTRAVIOLET OR INFRARED LAMPS	ex.	UV Lamps (specifically UV disinfection equipment)	WWM	2.4	70.97		
854140	PHOTOSNSITIVE SEMICNDCTR DVICE INC PHTVLTC CELL ETC	ex.	Photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes (specifically Solar Cells)	REP	0.0	1,688.24	CA, JPN, NZ\	APEC, OECD
854389	ELECTRICAL MACH & APPAR,HAVING INDIVIDUL FUNC,NESOI	ex.	Electrical machines and apparatus, having individual functions, not specified or included elsewhere in this chapter; other (specifically Ozone production system)	WWM	2.6	1,892.61	CT, JPN, KOR, NZ	APEC, OECD
870829	PTS & ACCESS OF BODIES OF MOTOR VEHICLES, NESOI	ex.	Parts and accessories of the motor vehicles of headings 8701 to 8705; Other (specifically Refuse Collection/Compaction Bodies)	S/H	2.5	5,676.93		
890710	INFLATABLE RAFTS	ex.	Inflatable rafts (specifically Inflatable Oil Spill Recovery Barges)	R/C	0.0	21.33	CA, CT, EC, JPN, NZ	APEC
890790	FLOATING STRUCTURES	ex.	Floating Structure Except	R/C	0.0	19.61	CA, CT,	APEC

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	EXCEPT INFLATABLE RAFTS		Inflatable Rafts (specifically Pollution Protection Booms)				JPN, KOR, NZ	
900190	LENSES PRISMS MIRRORS OPTCL ELMNT N OPTICALLY WORK	ex.	Mirrors of other than glass (specifically For solar concentrator systems)	REP	2.3	290.15		
900290	PRISM, MIRRORS, MOUNTED & PARTS & ACCESSORIE, NESO	ex.	Mirrors of glass (specifically For solar concentrator systems)	REP	1.9	86.71		
901540	PHOTOGRAMMETRICAL SURVEYING INSTRUMENTS & APPLNCES			M/A	1.5	31.07	CA, JPN, NZ	APEC
901580	SURVEYING INSTRUMENTS AND APPLIANCES, NESOI ETC.			M/A	0.9	311.81	CA, EC, JPN, NZ	APEC
901590	PARTS AND ACCESSORIES FOR SURVEYING ETC NESOI	ex.	Parts and accessories of surveying, hydrological, meteorological, or geophysical instruments and appliances, excluding compasses (specifically Photogrammetric instruments; parts and accessories for articles of subheading 9015.40)	M/A	0.1	66.49	CA, EC, JPN, NZ	APEC
902229	APPR USE OF ALPHA BETA GAMMA RDTN N F MED SURG ETC			M/A	1.2	114.21	CA, JPN, NZ	APEC
902290	X-RAY/HI TNSN GENR CNTR PNL & DSK EXM/TRTMNT TB PT	ex.	Apparatus based on the use of X-rays or of alpha, beta or gamma radiations for other than medical, surgical, dental or veterinary uses	M/A	1.0	767.86	CA, JPN, NZ	APEC

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			(specifically Parts and accessories for goods of subheading 9022.29)					
902511	THERMOMTRS/PYRO N CMBND W OT INST LIQ-FLLD DRCT RD			M/A	0.0	36.03	CA, JPN, NZ	APEC, OECD
902519	THERMOMETERS/PYRO NT COMBIND W OTH INSTRUM, NESOI			M/A	1.6	225.77	CA, JPN, NZ	APEC, OECD
902580	HYDROMETERS & SIM FL INST, HYGROMETERS, ETC, NESOI			M/A	1.6	83.13	CA, JPN, KOR, NZ	APEC, OECD
902590	PTS, HYDROMETERS, THERMOMETERS, PYROMETERS, ETC			M/A	1.6	33.90	CA, JPN, KOR, NZ	APEC
902610	INST & APPRTS, MEASURE/CHECKING FLOW/LEVEL OF LIQ			M/A	0.0	264.56	CA, JPN, KOR, NZ	APEC, OECD
902620	INST & APPRTS, MEASURING/CHECKING PRESSURE			M/A	0.0	330.73	CA, JPN, KOR, NZ	APEC, OECD
902680	INST MEASURE/CHECKING VARIABLE OF LIQ/GASES, NESOI			M/A	0.0	257.22	CA, EC, JPN, KOR, NZ	APEC, OECD
902690	PTS, INST & APPRTS MEASURE/CHECK VARIABLES LIQ/GAS			M/A	0.0	312.08	CA, EC, JPN, KOR, NZ	APEC, OECD
902710	GAS OR SMOKE ANALYSIS APPARATUS			M/A	2.5	408.42	CA, CT, EC, JPN, NZ	APEC, OECD

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902720	CHROMATOGRAPHS AND ELECTROPHORESIS INSTRUMENTS			M/A	0.0	83.45	CA, CT, JPN, KOR, NZ	APEC, OECD
902730	SPCTMTR SPCTRPHTMTR ETC USING OPTICAL RADIATIONS			M/A	0.0	18.83	CA, CT, JPN, NZ	APEC, OECD
902740	EXPOSURE METERS			M/A	1.2	7.82	CA, JPN, KOR, NZ	APEC, OECD
902750	INSTRUMENTS ETC USING OPTICAL RADIATIONS NESOI			M/A	0.0	526.64	CA, JPN, KOR, NZ	APEC, OECD
902780	PHY CHEM INS/APPR;MEAS VSCSTY & HEAT NESOI			M/A	0.0	817.20	CA, CT, EC, JPN, KOR, NZ	APEC, OECD
902790	PTS OF INST, PHYS/CHEM ANALYSIS ETC, NESOI			M/A	2.2	1,074.14	CA, EC, JPN, KOR, NZ	APEC, OECD
902810	GAS METERS			M/A	2.5	12.84	CA, EC, JPN, NZ	APEC, OECD
902820	LIQUID METERS			M/A	2.5	11.90	CA, JPN, NZ	APEC, OECD
902830	ELECTRICITY METERS			M/A	1.5	39.96	CA, JPN, NZ	APEC
902890	PT ACCES GAS LQD ELEC SUPPLY MTR INC CLBRATING MTR			M/A	3.2	155.05	JPN, KOR, NZ, CA	APEC
903010	INST FOR MEASURING/DETECTING			M/A	1.6	69.15	CA, EC, JPN, KOR,	APEC, OECD



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	IONIZING RADIATIONS						NZ	
903020	CATHODE-RAY OSCILLOSCOPES&CATHOD E-RAY OSCILLOGRAPH			M/A	1.7	19.15	CA, JPN, NZ	APEC
903031	MULTIMETERS WITHOUT A RECORDING DEVICE)			M/A	1.7	74.33	CA, JPN, KOR, NZ	APEC
903039	INST MEAS VOLT CRRNT ETC W-OUT RCRDNG DVCE, MLTMTR			M/A	1.7	282.44	CA, JPN, KOR, NZ	APEC
903083	INST & APP WITH RECORDING DEVICE, NESOI			M/A	1.7	152.93	CA, JPN, KOR, NZ	APEC
903089	INST,MEASURING/ CHECKING ELECTRICAL QUANTITIE,NESOI			M/A	1.7	261.45	CA, JPN, NZ	APEC
903090	PTS OF INST F MEAS ELECT QUAT ALPHA BETA INZNG RDT	ex.	Parts and accessories (for nominated articles of subheading 9030) (specifically Parts and accessories (for nominated articles of subheading 9030))	M/A	0.9	682.25	CA, JPN, KOR, NZ	APEC
903110	MACHINES FOR BALANCING MECHANICAL PARTS			M/A	1.7	31.32	CA, JPN, NZ	APEC
903120	TEST BENCHES			M/A	1.7	63.12	CA, JPN, NZ	APEC
903130	PROFILE PROJECTORS			M/A	2.5	8.13	CA, JPN, KOR, NZ	APEC
903180	MEAS & CHECKNG			M/A	0.9	1,422.75	CA, EC,	APEC, OECD

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	INSTRUMENT, APPLIANCES & MACH NESOI						JPN, NZ	
903190	PTS, OF MACH NESOI IN THIS CHAP, & PROFILE PROJECTR			M/A	1.9	532.93	CA, EC, JPN, KOR, NZ	APEC
903210	THERMOSTATS			M/A	1.7	359.69	CA, JPN, NZ	APEC, OECD
903220	MANOSTATS			M/A	1.7	17.28	CA, JPN, KOR, NZ	APEC, OECD
903281	HYDRAULIC/PNEUMATIC AUTO REGULATING/CONTR INS/APPR			M/A	1.6	32.94	CA, JPN, KOR, NZ	APEC, OECD
903289	AUTO REGULATING INS & APPR EX THROSTAT, MNSTAT, ETC			M/A	1.5	2,330.77	CA, JPN, KOR, NZ	APEC, OECD
903290	PTS, AUTOM REGULATING/CONTROLLING INST & APPRTS			M/A	1.5	582.48	CA, JPN, KOR, NZ	APEC
903300	PTS, NESOI FOR MACHINES,APPLN, INST/APPTS OF CHAP90			M/A	4.4	4.06	CA, JPN, KOR, NZ	APEC
950720	FISH-HOOKS, WHETHER OR NOT SNELED	ex.	Fishing Rods, Fish Hooks, and other line fishing tackle, fish landing, etc.; Parts and Accessories Thereof; Other (specifically Circle hooks)	NR	4.4	23.83		

