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T.C.
EKONOMİ BAKANLIĞI
Anlaşmalar Genel Müdürlüğü

Sayı : 14375580 - 730.03.05 - 41157
Konu : Çevresel Ürünler Anlaşması /
Çevresel Ürünler Çoklu Girişimi

26.03.2015

TÜRKİYE ODALAR VE BORSALAR BİRLİĞİNE

Bilindiği üzere, Dünya Ticaret Örgütü (DTÖ) üyesi bir grup ülkenin, 24 Ocak 2014 tarihinde yayımladıkları bir ortak bildiriyle "çevresel ürünler" ticaretinde serbesleşme müzakerelerine girmeye yönündeki irade beyanlarının ardından başlayan DTÖ Çevresel Ürünler Anlaşması (EGA) çoklu görüşmeleri devam etmektedir. EGA'nın imzalanması halinde, kapsayacağı çevresel ürünlerde, gümrük tarifelerinin sıfırlanması yoluyla önemli bir pazar açılımı sağlanması öngörülmektedir.

Çevresel ürünlere ilişkin görüşmelere, süreci başlatan 14 DTÖ ülyesinin (Avustralya, Kanada, Çin, Tayvan, Kosta Rika, AB, Hong Kong, Japonya, Güney Kore, Yeni Zelanda, Norveç, İsviçre, Singapur ve ABD) yanı sıra, İsrail, İzlanda ve Türkiye de iştirak etme kararı almıştır. Ülkemiz söz konusu çoklu müzakerelere ilk kez, 16-20 Mart 2015 tarihlerinde düzenlenen 5. tur görüşmelerden itibaren fiilen katılım sağlamaya başlamıştır.

Bugüne kadar gerçekleştirilen görüşmelerde, görüşme taraflarının EGA kapsamında yer almasını istedikleri ürünler ve bu ürünlerin çevreye sağlayacağı faydalar ele alınmıştır. Bu çerçevede, "hava kirliliğinin kontrolü", "katı ve tehlikeli atık yönetimi", "atık su idaresi ve su arıtımı", "çevresel islah ve temizlik", "gürültü ve vibrasyonun azaltılması", "daha temiz ve yenilenebilir enerji", "enerji verimliliği", "çevresel izleme, analiz ve değerlendirme", "kaynak etkinliği" ve "çevresel olarak tercih edilir ürünler" kategorilerinde yer alan ürünler ele alınmıştır. Olası Anlaşmanın, bahsi geçen 10 kategorinin dışında farklı kategoriler içermesi şu aşamada öngörülmemektedir.

Bugüne kadar EGA görüşmelerinde gündeme getirilen ürünlerden anlaşılmaktadır ki olası bir Anlaşmanın kapsayacağı ürünlerin çok büyük bir kısmı, ülkemizin AB ile sürdürdüğü Gümrük Birliğine de dahil olan ürünlerden olacaktır. Dolayısıyla EGA görüşmelerinin neticesinde bir anlaşma imzalanması halinde ülkemizin her halükarda bu anlaşmadan doğrudan etkileneceği açıktır. Ülkelerden ürün kapsamına dahil olmasını istedikleri ürünleri bildirilmesinin talep edildiği EGA görüşmelerinin bugünkü aşamasında, ülkemiz, menfaat ve ihtiyaçları doğrultusunda sürece müdahil olunması önem taşımaktadır.

Bu itibarla, söz konusu 10 kategorinin her birinde şimdiye kadar sürece taraf ülkelere gündeme getirilen ürünlerin bir kısmının yer aldığı iş'ari liste yazımız ekinde (Ek-1) sunulmaktadır. Öte yandan, benzer maksatlarla daha önce sürdürülmüş girişimlerin çıktıklarından da bu kapsamda istifade edilebileceği değerlendirilmekte, bu doğrultuda olası anlaşmanın ürün muhteviyatı konusunda fikir verebileceği düşünülmesiyle, Asya Pasifik İşbirliği

"Bu belge, 5070 sayılı Elektronik İmza Kanununun 5. maddesi gereğince güvenli elektronik imza ile imzalanmıştır."

T.C. Ekonomi Bakanlığı Anlaşmalar Genel Müdürlüğü
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Örgütlü (APFC) Çevresel Ürünler Listesi ve bir grup DTÖ üyesince 2009 yılında sunulan "Dostlar Listesi" olarak adlandırılan listelerin birer örneği ekte (1k-3 ve 1k-4) ayrıca sunulmaktadır. Bahse konu listelerin hiçbir görüşmelerin kapsamını birebir yansıtmamakla birlikte, müzakerelerde ülkelerce hangi taleplerin gündeme getirildiğinin ve bahsi geçen kategorilerin neler içerdiğinin anlaşılması açısından yol gösterici olabileceği değerlendirilmektedir.

Bu husus da dikkate alınarak, İGA kapsamında tarife serbestleşmesine tabi tutulmasının ülkemizin yararına olacağı öngörülen ve "çevresel ürün" olarak adlandırılabilirliği düşünülen ürünlerin 20 Nisan 2015 tarihine kadar Bakanlığımıza bildirilmesine ihtiyaç duyulmaktadır. İGA kapsamında yer alması kurum ve kuruluşlarımızca istenecek ürünlerin Bakanlığımıza bildirim yapıırken, kurum ve kuruluşlarımızca oluşturulacak "aday ürün listeleri"nin nasıl hazırlanması gerektiğini gösteren bir metin ekte (1k-2) sunulmaktadır.

Öte yandan, paydaşlarca konuya ilişkin ilk değerlendirmelerin ve istişarelerin yapılması amacıyla 9 Nisan 2015 tarihi saat 14.30'te Bakanlığımız Uğur Ercan Toplantı Salonunda, Bakanlığımız Anlaşmalar Genel Müdür Yardımcısı Sayın Mustafa Tuzcu başkanlığında bir toplantı düzenlenecektir. İstişarelerden azami faydanın sağlanabilmesi açısından, sözkonusu toplantıda, tüm kurum ve kuruluşların ilgili yetkililerce temsili önem taşımaktadır.

Bilgilerini ve bahse konu toplantıya katılacak yetkililerinin isim, unvan ve iletişim bilgilerinin 6 Nisan 2015 tarihine kadar Bakanlığımıza ve yucesoyk@ekonomi.gov.tr ve ozeic@ekonomi.gov.tr e-posta adreslerine iletilmesi hususunda gereğini arz ve rica ederim.

— Mustafa TUZCU
Bakan a.
Genel Müdür V.

EKLER:

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2. Aday ürün listelerinin hazırlık aşaması
3. Dostlar listesi
4. APFC çevresel ürünler listesi
5. Konuya ilişkin önceki yazımızın örneği

DAĞITIM:

Gereği:

Bilim Sanayi ve Teknoloji Bakanlığına
(Avrupa Birliği ve Dış İlişkiler Genel
Müdürlüğü)
Çevre ve Şehircilik Bakanlığına
Çevre Yönetimi Genel Müdürlüğü
Enerji ve Tabii Kaynaklar Bakanlığına
(Yenilenebilir Enerji Genel Müdürlüğü)
Kalkınma Bakanlığına
(İktisadi Sektörler ve Koordinasyon Genel
Müdürlüğü)
Türkiye Odalar ve Borsalar Birliği

Bilgi:

Dışişleri Bakanlığına
(Çok Taraflı Ekonomik İşler Genel
Müdürlüğü)

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Türkiye İhracatçılar Meclisi Başkanlığı
Orta Anadolu İhracatçı Birlikleri Genel
Sekreterliği
İstanbul Maden ve Metaller İhracatçı Birlikleri
Genel Sekreterliği
İstanbul Tekstil ve Konfeksiyon İhracatçıları
Birliği Genel Sekreterliği
Türk Sanayicileri ve İş Adamları Derneği
Müstakil Sanayici ve İş Adamları Derneği
Kompozit Sanayicileri Derneği
Akışkan Gücü Derneği
Isı Su Ses ve Yangın Yalıtımcıları Derneği
Aydınlatma Gereçleri İmalatçıları Derneği
Basınçlı Sulama Sanayicileri Derneği
Alternatif Enerji ve Biyodizel Üreticileri Birliği
Derneği
Yenilenebilir Enerji Kaynaklarını Geliştirme ve
Destekleme Derneği
Enerji Verimliliği Derneği
Güneş Enerjisi Sanayicileri ve Endüstrisi
Derneği
Türkiye Rüzgar Enerjisi Birliği
Ostim Yenilenebilir Enerji ve Çevre
Teknolojileri Kümelenmesi
Plastik Sanayicileri Derneği
Türk Tarım Alet ve Makinaları İmalatçıları
Birliği
Türkiye İnşaat Malzemesi Sanayicileri Derneği
Tesisat İnşaat Malzemecileri Derneği
Türkiye İş Makinaları Distribütörleri ve
İmalatçıları Birliği Derneği
Ulusal Ahşap Birliği
Kablo ve İletken Sanayicileri Derneği
Otomotiv Sanayi Derneği
Makina İmalatçıları Birliği Derneği

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Ek-1

EGA görüşmelerinde ele alınan ürün örnekleri

Aşağıda yer alan ürünler görüşmelerin kapsamını tamamen içermemektedir. Örnekler, kategorilerin kapsamları hakkında bilgi vermek maksadıyla sunulmaktadır.

- Hava kirliliğinin kontrolü: Anticılı gaz ve havagazı jeneratörleri; yatay bir kenarı 120 cm'yi geçmeyen davlumbazlar; egzoz gazı ve toz benzeri havayı kirleten maddelerin ekstraksiyon ve taşınmasında kullanılan sanayi davlumbazları; atık gaz davlumbazları; kirli havanın ekstraksiyonu ve taşınmasında kullanılan kompresörler; duman gazı denitrasyon sistemlerinde kullanılan denitrasyon katalistleri; denitrasyon katalistinin taşınmasında kullanılan titanyum dioksit; meta-aramid; fiberglas filtreler; gazların filtre edilmesine ve arıtmasına mahsus makineler, cihazlar ve bunların parçaları.
- Katı ve tehlikeli atık yönetimi: Çöp yakma kazanları; yüksek ısı su kaynatıcıları; su borulu buhar kazanları; mineral maddeleri tasnif etmeye, elemeye, ayırmaya, yıkamaya, kırmaya ve öğütmeye mahsus makina ve cihazlar; daimi mıknatıslar ve elektro mıknatıslar; rezistansla ısıtılan su insincratörleri.
- Atık su idaresi ve su arıtımı: Akışkanlar için pompalar; çamur kurutma makineleri; su filtrelemesi ve arıtımında kullanılan santrifüjler; basınç kontrol cihazları (manostatlar); su sayaçları ve parçaları; kromatograflar, spektrometreler ve parçaları; ultraviyole dezenfeksiyon lambaları ve bunlar için balastlar, valfler ve bunların aksam ve parçaları; bir kısım vakum pompalar, fanlar ve parçaları; sıvılar için bir takım el pompaları; hacmi 300 litreyi geçen ve mekanik veya termik tertibatı olmayan demir veya çelikten depolar, sarnıçlar, küvler ve benzeri kaplar; atık su ve içme suyu uygulamalarında kullanılan demir veya çelik boru, rögar ve oluklar.
- Çevresel ıslah ve temizlik: Demir oksit; doğada çözünebilir erozyon kontrol hasırları; termal ayıklayıcılar (desorbers); sızıntı önleyici borular; petrol sıyrıcılar ve parçaları; toprak ıslah sistemleri ve parçaları; şişirilebilir petrol sızıntı onarım duba ve tankları, petrol sızıntı onarımında kullanılan, şişirilemeyen, diğer yüzen bariyerler.
- Gürültü ve vibrasyonun azaltılması: Ses yalıtımı ve emiliminde kullanılan etüf yünü, kaya yünü ve benzeri mineral yünler; sanayide kullanılan susturucular; eksoz susturucuları; aglomere mantar ve aglomere mantardan eşya; bitkisel liflerden, samandan, ağaç talaşından vb. yapılmış pano levha karo blok vb.; amyant içeren ses yalıtım bariyerleri; çok katlı yalıtım camları; mekanik parçaları dengeleme makinaları (balans makinaları); vibrasyon ölçüm cihazları.
- Daha temiz ve yenilenebilir enerji: Jeotermal enerji üretiminde kullanılan buhar türbinleri; nükleer reaktörler; hidroelektrik türbinleri; rüzgar türbini kuleleri; rüzgar türbini parçaları; alternatif akım jeneratörleri; tomruk, kütük, çalı-çırpı demeti veya benzer formlarda yakacak odun; iğne yapraklı ve diğer ağaçlardan odun yongası ve kamga; toprak şeklinde odun döküntü ve atıkları; silisyum; potasyum karbonat; kalsiyum karbonat; metil alkol; muhtelif müstahzar enzimler; çimento, harç ve betonlara mahsus müstahzar katkıları; biyodizel; hidrokarbon emiciler; karbondioksitten mamül kireç taşı benzeri mineraller içeren karolar, döşemelik taşlar ve benzeri eşya; biokütle kazanları ve parçaları; solar su ısıtıcıları; yenilenebilir enerji sistemlerinde kullanılan eşanjörler.

Ek-1

EGA görüşmelerinde ele alınan ürün örnekleri

- Enerji verimliliği: Modifiye petrol reçinesi; kobalt oksit; polüüretan köpük; polietililen tetaftalattan veya polivinil butiralden pencere filmleri; çubuk, profil, tel, sac, şerit, yaprak, ince veya kalın boru şeklindeki titanyum; jeotermal ısı pompaları; gaz türbinleri; akıllı elektrik sayaçları; şamdanlarda ve duvar aydınlatmasında kullanılan LED lambaları; hibrid araçlar için elektronik kompresör; inverter soğutucular.
- Çevresel izleme, analiz ve değerlendirme: Elektron mikroskopları ve bunların parça ve aksesuarları; seviye tespit aletleri (nivoalar); fotogrametrik ölçüm alet ve cihazları; teodolitler ve lakimetreler; X-ray tahribatsız muayene gereçleri; X-ray tüpleri; sanayi tipi termometreler; barometreler; termograflar; sıvıların akışını veya seviyesini ölçmeye veya muayeneye mahsus alet ve cihazlar; basınç ölçmeye veya kontrol etmeye mahsus alet ve cihazlar; gaz ve duman analiz cihazları; kromatograflar ve elektroforez cihazları; optik ışınlı (UV, görülebilir ışınlar, IR) spektrometreler, spektrofotometreler ve spektrograflar; mikrotomlar ve bunların aksam, parça ve aksesuarları; iyonlaşma ışınlarını ölçmeye veya bulmaya mahsus alet ve cihazlar; multimetreler; termostallar.
- Kaynak etkinliği: Hububat veya baklagillerin elenmesi, öğütülmesi veya başka işlemlere tabi tutulması sonucu elde edilen kepek, kavuz ve diğer kalıntılar; plastiklerin döküntü, kalıntı ve hurdaları; kıymetli metallerin ve kıymetli metallerle kaplama metallerin döküntü ve artıkları, özellikle kıymetli metallerin tekrar elde edilmesinde kullanılan türdeki kıymetli metal veya kıymetli metal bileşikleri ihtiva eden diğer döküntü ve atıklar; bakır, nikel, alüminyum, kurşun, çinko, kalay, tungsten, tantal, magnezyum, kobalt döküntü ve hurdaları; gaz türbinleri.
- Çevresel olarak tercih edilir ürünler: Sızdırmazlık cihazları (sealing devices); karbon fiber prepeg; çift kademeli rezervuarı olan tuvaletler ve susuz pisuvarlar; bio-polietilenler (LDPE, HDPE ve PE); bisiklet ve parçaları; bambu mobilya ve parçaları; R600a kullanan kompresörlü buzdolapları; R290 kullanan split klimalar; kaskad soğutma sistemleri; bio-polyester lifleri ve kullanılmış diğer polyesterlerin geri dönüşümünden elde edilen polyester lifler; jüt ve bitki iç kabuklarının dokunmaya elverişli lifleri; kenevir lifi; bambu yer kaplamaları, tren ve tramvay vagon ve lokomotifleri.

Ek-2

EGA – Aday ürün listelerinin hazırlık aşaması

Görüşmelerde, ülkeler tarafından EGA kapsamında yer alması talep edilen ürünler sunulurken 2012 yılı Dünya Gümrük Örgütü (WCO) Armonize Sisteminden (HS 2012) istifade edilmektedir. Bu çerçevede, EGA kapsamında yer alması talep edilen ürünler tanımlanırken 6 haneli HS kodlarının (HS-6) altında yer alan ürün tanımları ilk aşamada kullanılmaktadır.

HS-6'ların kapsamının kastedilenden daha geniş olması halinde ise "ex-out" olarak adlandırılan ürün tanımları üretilmektedir. Bu çerçevede hazırlanan "ex-out" tanımlar, bir veya daha fazla HS-6'nın altında yer alan ürünlerin söz konusu "ex-out" tanımla belirlenen bir kısmına işaret etmektedir. Aşağıda "ex-out" ürün tanımına ilişkin örnekler sunulmaktadır.

HS6 (2012)	HS6 Code Description	Ex-Out / Additional Product Specification
282300	Titanium oxides	Titanium dioxide as the carrier of denitration catalyst
850680	Primary cells and primary batteries: Other primary cells and primary batteries.	Fuel cells
460122	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). -Mats, matting and screens of vegetable materials. - - of rattan.	Erosion control matting and ground covers.
460129	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).- Mats, matting and screens of vegetable materials:--Other	

Görüşmelerde, aday gösterilen ürünler için, bahsi geçen şekilde hazırlanacak ürün tanımlarının yanısıra, ürünlerin çevreye faydasının açıklanması ve ürünün hangi kategori altında yer aldığını belirtmesi de gerekmektedir.

Bu kapsamda kullanılabilen kategoriler aşağıdakilerle sınırlıdır:

- Air Pollution Control (APC)
- Cleaner and Renewable Energy (CRE)
- Energy Efficiency (EE)
- Environmentally Preferable Products (EPP)
- Environmental Monitoring, Analysis and Assessment (EMAA)
- Environmental Remediation & Clean-Up (ERC)
- Noise and Vibration Abatement (NVA)
- Resource Efficiency (RE)
- Solid & Hazardous Waste Management (SHWM)
- Wastewater Management & Water Treatment (WMWT)

Ek-2

EGA – Aday ürün listelerinin hazırlık aşaması

Bahsi geçen şekilde hazırlanmış bir takım örnekler aşağıda sunulmaktadır:

HS6 (2012)	HS6 Code Description	Ex-Out	Environmental Benefits & Additional Information	Category
441872	Assembled flooring panels: Other, multilayer.	Of bamboo	The primary input (bamboo) used in the production of this good has a high probability of a low overall environmental impact across its life-cycle.	EPP
540220	High tenacity yarn of polyesters : Synthetic filament yarn (other than sewing thread), not put up for retail sale, including synthetic monofilament of less than 67 decitex.	① Bio-Polyester fibers ② Polyester fibers recycled from other used polyester products	① Bio-derived raw material contributes to minimizing the Greenhouse Gas Emission in the whole life cycle of its products due to CO2 having been absorbed while growing in fields. ② Recycling used material contributes to save carbon consumption of fossil fuel resources and helps reduce green house gases.	EPP
560394	Nonwovens of other materials (weighing more than 150 g/m2, whether or not impregnated, coated, covered, laminated)	Weighing more than 150 g/m2: Impregnated, coated, covered or laminated	As a kind of filter material for dust removal, it serves as an indispensable component of the bag-type dust remover for air pollution control.	APC
631010	Used or new rags, scrap twine, cordage, rope and cables and worn out articles of twine, cordage, rope or cables, of textiles materials: Sorted.		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. 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), as opposed to a linear economy model where resources are extracted, turned into a product, and disposed after use.	RE
680610	Slag-wool, rock-wool and similar mineral wools (including intermixtures thereof), in bulk, sheets or rolls		Used for sound-insulation, sound-absorbtion and for thermal insulation	NVA, EE

EK-2

Dostlar Listesi

HS CODE/DESCRIPTION	HS (2002)	EX-OUT / ADDITIONAL PRODUCT SPECIFICATION	REMARKS / ENVIRONMENTAL BENEFIT
Condensers for steam or other vapour power units.	840420		Used to cool gas streams to temperatures which allow the removal of contaminants, e.g. volatile organic compounds (VOC) like benzene.
Parts for auxiliary plant for boilers, condensers for steam, vapour power unit.	840490		These parts are used in the repair and maintenance of the equipment classified under item 208 above. 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.
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.	840510	Include only those with purifiers	Purifiers remove contaminants (such as cyanide or sulphur compounds) produced in the manufacture of gases.
Vacuum pumps.	841410	Industrial hoods for transportation or extraction of air pollutants such as exhaust gas or dust.	Air handling equipment. Used in a number of environmental applications, e.g. flue gas desulphurisation (the process by which sulphur is removed from combustion exhaust gas).
Compressors of a kind used in refrigerating equipment.	841430	Compressors used in air handling equipment.	Air handling equipment. Transport or extraction of polluted air, corrosive gases or dust.
Air compressors mounted on a wheeled chassis for towing.	841440	Air compressors used in the transportation or extraction of polluted air, corrosive gases or dust.	Air handling equipment. Transport or extraction of polluted air, corrosive gases or dust.
Parts other than table, floor, wall, window, ceiling or roof fans, with a self-contained electric motor of an output not exceeding 125 W.	841459	Optional ex-out of fans for the transport or extraction of polluted air and corrosive gases or dust.	Air handling equipment. Transport or extraction of polluted air, corrosive gases or dust. Transport or extraction of polluted air and corrosive gases or dust.
Air Pumps, air/oth. gas compressors and fans (excl. of 8414.10-8414.59); ventilating/recycling hoods incorp. a fan, whether or not fitted with filters (excl. of 8414.60).	841480	Industrial hoods; aerators; blowers; and diffusers.	Air handling equipment. Transport or extraction of polluted air, corrosive gases or dust.
Air or vacuum pumps, air or other gas compressors and fans; ventilating or recycling hoods incorporating a fan, whether or not fitted with filters: Parts.	841490	Parts for 841410x, 841430, 841440, and 841480x. Optional ex-out may include: 841459x.	Air handling equipment. Transport or extraction of polluted air, corrosive gases or dust. Transport or extraction of polluted air and corrosive gases or dust.
Machinery for liquefying air or other gases.	841960		For separation and removal of pollutants through condensation.
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.	841989	Evaporators and dryers, for water and waste water treatment. Condensers and cooling towers. Biogas reactors, digestion tanks and biogas refinement equipment.	For processing water and waste water and the separation and removal of pollutants through condensation. Includes fluidised bed systems (bubbling, circulating, etc.) and biomass boilers. Can also help anaerobic digestion of organic matter.
Filtering or purifying machinery and apparatus for gas (other than intake air filters for internal combustion engines).	842139	Optional ex-out may include: Catalytic converters / Gas separation equipment / Pneumatic, fluid power filters rated at 5.50 kPa. or greater / Industrial gas cleaning equipment / Electrostatic filters (precipitators).	Physical, mechanical, chemical or electrostatic filters and purifiers for the removal of COV, solid or liquid particles in gases, etc.
Instruments for measuring or checking the flow, level, pressure or other variables of liquids or gases.	902610	Air quality monitors; and dust emissions monitors.	Monitors to measure air pollution; basis for possible correcting measures (notably in view of health effects).

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IIS CODE DESCRIPTION	IIS (2002)	EX OUT / ADDITIONAL PRODUCT SPECIFICATION	REMARKS / ENVIRONMENTAL BENEFIT
Other plates, sheets, film, foil and strip, of polymers of ethylene, non-cellular and not reinforced, laminated, supported or similarly combined with other materials: Plates, sheets, film, foil and strip of plastics, not self-adhesive, non-cellular, not reinforced or laminated etc., of polymers of ethylene.	392010	HDPE or flexible membrane landfill liners and/or covers for methane collection; Plastic and polyethylene geomembranes for soil protection, water tightness, anti-erosion of soil.	Used to line landfills to prevent leachate (water run-off) from contaminating groundwater resources. Also used to cover landfills and prevent methane from escaping into atmosphere. These membrane systems are also used for the reinforcement and protection of soil, including under oil refineries, gas stations etc.
Aluminium casks, drums, cans, boxes and similar containers (including rigid or collapsible tubular containers), for any material (other than compressed or liquefied gas), of a capacity not exceeding 300 l, whether or not lined or heat-insulated, but not fitted with mechanical or thermal equipment.	761290	Waste containers, including those for municipal or dangerous waste.	Containers of any material, of any form, for liquid or solid waste, including for municipal or dangerous waste.
Steam or other vapour generating boilers (other than central heating hot water boilers capable also of producing low pressure steam); super-heated water boilers; and part of the boilers of 840211 - 840220	840219	Biomass boilers.	Boilers for the production of heat and power on the basis of (renewable) biomass fuels.
Steam or other vapour generating boilers (other than central heating hot water boilers capable also of producing low pressure steam); super-heated water boilers.	840290	Parts for 840219x.	Parts for the biomass boilers described above.
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.	840410	Auxiliary plant for use with 840219x.	Components of industrial air pollution control plant which 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.
Other industrial or laboratory furnaces and ovens, including incinerators, non-electric	841780	<i>Optional ex-outs may include: waste incinerators; heat or catalytic incinerators.</i>	These products are used to destroy solid and hazardous wastes. Catalytic incinerators are designed for the destruction of pollutants (such as VOC) by heating polluted air and oxidation of organic components.
Industrial or laboratory furnaces and ovens, including incinerators, non-electric; Parts.	841790	<i>Optional ex-outs may include: parts for 841780 x.</i>	These parts can help maintain and repair products that are used to destroy solid and hazardous wastes. Similarly, the parts for catalytic incinerators can help maintain and repair items that can assist in the destruction of pollutants (such as VOC) by heating polluted air and oxidation of organic components.
Distilling or rectifying plant.	841940	<i>Optional ex-outs may include: detoxification systems; biogas refinement equipment; and solvent recycling plants.</i>	Desalination plants remove salt from water and are particularly important in conditions of water scarcity. Proper disposal of by-products is also required. - Biogas refinement equipment "upgrades" biogas resulting from organic matter to give it the same properties as natural gas. Allows the recovery and reuse of solvents, e.g. solvents used in the printing, painting or dry cleaning industries.
Machinery for cleaning or drying bottles or other containers.	842220		Used to clean and dry bottles so that they can be recycled and re-used.
Machinery for cleaning or drying bottles or other containers: Parts.	842290	Parts for 842220.	Parts are used to assemble and maintain the above equipment.
Tamping machines and road rollers.	842910	Self-propelled sanitary landfill compactors.	Used in solid waste treatment or recycling.
Hydraulic presses for working metal.	846291	Shredders/balers/compactors for waste metals, hydraulic.	Assists in compacting and compressing metals, including for recycling.
Splitting, slicing or paring machines.	846596	Splitting, slicing or paring machines (specifically portable recyclers (grinders/shredders) portable (wood and waste recycling machinery)).	Used for recycling wood and other waste.

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HS CODE DESCRIPTION	HS (2002)	EX-OUT / ADDITIONAL PRODUCT SPECIFICATION	REMARKS / ENVIRONMENTAL BENEFIT
Other machine tools not elsewhere specified or included	846599	Other parts of splitting, slicing or paring machines (specifically tree delimitter/ debarker/ chipper machinery (portable recyclers (grinders/ shredders))	Assists in recycling as with item 279.
Parts and accessories suit. for use solely/princ. with the machines of 84.62/84.63.	846694	Parts for 846291x.	See above for item 277.
Crushing or grinding machines.	847420		Used for solid waste treatment or recycling.
Mixing, kneading, crushing, grinding, screening, sifting, homogenising, emulsifying or stirring machines not elsewhere specified in Chapter 84.	847982	Waste sorting, screening, crushing, grinding, shredding, washing and compacting devices, Agitator for wastewater treatment, flash mixer and flocculator.	Used to prepare waste for recycling; mixing of wastewater during treatment; preparing organic waste for composting; (composting can minimise the amount of waste going to landfill as well as recovering the valuable nutrient and energy content of the waste).
Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter: Other.	847989		Machines and appliances designed for a wide range of areas of environmental management, including waste, waste water, drinking water production and soil remediation. In-vessel composting systems can handle large amounts of waste and speed up decomposition. Trash compactors reduce the volume of solid waste, allowing more efficient transport and disposal.
Parts of the mach. and mech. appls. of 84.79	847990	Parts for 847982x and 847989x.	See the environmental benefit under entry 291.
Other, including parts	850590	Electromagnet, parts of magnetic separator; magnetic pulley, suspended magnet and magnet drum.	Used to remove metal content from waste for recycling.
Resistance heated furnaces and ovens.	851410	<i>Optional ex-outs may include: waste incinerators and heat or catalytic incinerators.</i>	These products are used to destroy solid and hazardous wastes. Catalytic incinerators are designed for the destruction of pollutants (such as VOC) by heating polluted air and oxidation of organic components.
Furnaces and ovens, functioning by induction or dielectric loss.	851420	<i>Optional ex-outs may include: waste incinerators and heat or catalytic incinerators.</i>	These products are used to destroy solid and hazardous wastes. Catalytic incinerators are designed for the destruction of pollutants (such as VOC) by heating polluted air and oxidation of organic components.
Other furnaces and ovens.	851430	<i>Optional ex-outs may include: waste incinerators and heat or catalytic incinerators.</i>	Catalytic incinerators are designed for the destruction of pollutants (such as VOC) by heating polluted air and oxidation of organic components.
Parts of industrial or laboratory electric furnaces and ovens; other laboratory induction or dielectric heating equipment.	851490	<i>Optional ex-outs include: Parts for 851410x, 851430x and 851430x.</i>	Parts for the equipment listed will facilitate the destruction of pollutants (such as VOC) by heating polluted air and oxidation of organic components.
Centrifuges, including centrifugal dryers, other than cream separators and clothes-dryers.	842119	Oil Skimmer.	Equipment used to remove oil floating on water and is commonly used for oil spill remediations
Parts of centrifuges, including centrifugal dryers.	842191	Parts for 842119x.	Used for the maintenance and repair of equipment that removes oil floating on water and is commonly used for oil spill remediation.
Electric space heating apparatus and electric soil heating apparatus; other.	851629	Electric soil heating apparatus.	Use heat to disinfect or remove organic compounds (e.g. pesticides, hydrocarbons) from soil, and to dry contaminated soil prior to treatment processes.
Other floating structures (for example, rafts, tanks, coffer-dams, landing-stages, buoys and beacons); Other (other than inflatable rafts).	890790	Pollution protection booms, oil absorbent booms, oil containment booms.	Floating barriers to oil can prevent an oil slick from reaching sensitive locations or spreading out further. Oil absorbents soak up and remove the oil.
Towers and lattice masts.	730820	Wind turbine tower.	Used to elevate and support a wind turbine for the generation of renewable energy.

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HS CODE DESCRIPTION	HS (2002)	EX-OUT / ADDITIONAL PRODUCT SPECIFICATION	REMARKS / ENVIRONMENTAL BENEFIT
Aluminium reservoirs, tanks, vats and similar containers, for any material (other than compressed or liquefied gas), of a capacity exceeding 300 l, whether or not lined or heat-insulated, but not fitted with mechanical or thermal equipment; tanks etc. over 300 litres capacity, aluminium.	761100	<i>Optional ex-outs may include: Tanks or vats for anaerobic digesters for biomass gasification; cisterns, vats and reservoirs for waste and potable water; and solar pre-heating storage tank</i>	Tanks, vats and containers for the production of biogas, waste water management, drinking water production and solar thermal energy purposes.
Steam and other vapour turbines (other than turbines for marine propulsion): Of an output exceeding 40 MW.	840681	<i>Optional ex-outs may include stationary steam turbines over 40 MW; Low temperature/ low pressure steam turbines for geothermal heat pump systems; and steam turbines for co-generation.</i>	Turbines designed for the production of geothermal energy (renewable energy) and co-generation ((CHP) which allows for a more effective use of energy than conventional generation).
Steam turbines and other vapour turbines (other than for marine propulsion) of an output not exceeding 40 MW.	840682	<i>Optional ex-outs may include stationary steam turbines not over 40 MW; other vapour turbines; low temperature/ low pressure steam turbines for geothermal heat pump systems; and steam turbines for co-generation.</i>	Steam turbines are used to drive electrical generators to derive electrical power from environmental energy recovery operations. Note that these have an output capacity "not exceeding 40 MW".
Parts for steam and other vapour turbines.	840690	<i>Optional ex-outs may include parts suitable for use with stationary steam turbines over 40MW; stationary steam turbines not over 40 MW; other vapour turbines; parts for 840681x and 840682x</i>	Parts used for repair and maintenance of energy recovery turbines listed in items 212 and 213 above.
Hydraulic turbines and water wheels of a power not exceeding 1,000 kW.	841011		Hydroelectric power generation produces no greenhouse gas emissions.
Hydraulic turbines, water wheels, and regulators; parts, including regulators.	841090	Parts for 841011.	Hydroelectric power generation produces no greenhouse gas emissions.
Other gas turbines of a power not exceeding 5,000 kW.	841181		Gas turbines for electrical power generation from recovered landfill gas, coal mine vent gas, or biogas (clean energy system). Note that these turbines do "not exceed 5,000 kW".
Other gas turbines of a power exceeding 5,000 kW.	841182		Gas turbines for electrical power generation from recovered landfill gas, coal mine vent gas, or biogas (clean energy system). Note that these turbines do "exceed 5,000 kW".
Instantaneous or storage water heaters, non-electric (other than instantaneous gas water heaters).	841919	Solar water heaters.	Uses solar thermal energy to heat water, producing no pollution. Use of solar water heating displaces the burning of other, pollution-creating fuels.
Parts of machinery, plant and equipment of heading No 84.19	841990	<i>Optional ex-outs may include: Parts for 8419.19 ex, including for solar boiler/water heater; insulation, temperature sensor for solar boiler/water heater; Differential temperature controller for solar boiler/water heater; Evacuated glass tubes for solar boiler/water heater; Heat pipes for solar boiler/water heater. Parts of 841940x, 841950x, 841960, 841959x</i>	Parts used in the maintenance and repair of solar water heaters (etc). which use solar thermal energy to heat water, producing no pollution. Use of solar water heating displaces the burning of other, pollution-creating fuels.

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IIS CODE DESCRIPTION	IIS (2002)	HX OUTF / ADDITIONAL PRODUCT SPECIFICATION	REMARKS / ENVIRONMENTAL BENEFIT
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.	848340	Gearboxes for wind turbines.	Gearboxes transform the (relatively slow) rotation of the blades of wind turbines into the speed required to produce (renewable) electricity
Clutches and shaft couplings (including universal joints).	848360	Clutches and shaft couplings imported for use with wind turbines to produce electricity.	Used for initial assembly, repair, and maintenance of wind energy systems
AC generators (alternators), of an output not exceeding 75 kVA	850161		Used in conjunction with boiler and turbines (also listed here) to generate electricity in renewable energy plants. Must use these turbines and generators in combination to produce electricity from renewable fuels (e.g., biomass). Size is "not exceeding 75 kVA".
AC generators (alternator), of an output exceeding 75 kVA but not exceeding 375 kVA	850162		Used in conjunction with boiler and turbines (also listed under items 212 and 213) to generate electricity in renewable energy plants. Must use these turbines and generators in combination to produce electricity from renewable fuels (e.g., biomass). Size is "exceeding 75 kVA but not exceeding 375 kVA"
AC generators (alternator), of an output exceeding 375 kVA but not exceeding 750 kVA	850163		Used in conjunction with boiler and turbines (also listed here under items 212 and 213) to generate electricity in renewable energy plants. Must use these turbines and generators in combination to produce electricity from renewable fuels (e.g., biomass). Size is "exceeding 375 kVA but not exceeding 750 kVA."
AC generators (alternator), of an output exceeding 750 kVA	850164		Used in conjunction with boiler and turbines (also listed under items 212 and 213) to generate electricity in renewable energy plants. Must use these turbines and generators in combination to produce electricity from renewable fuels (e.g., biomass). Size is "exceeding 750 kVA."
Other electric generating sets: Wind-powered.	850231		Electricity generation from a renewable resource (wind).
Electric generating sets and rotary converters: other	850239	<i>Optional ex-outs may include: combined heat and power systems using biomass and/or biogas; Portable solar power generation equipment; solar power electric generating sets; Small hydro powered generating plant; Wave power generating plant; and Gas turbine sets for biomass plants.</i>	Combined heat and power systems produce usable power (usually electricity) and heat at the same time. Micro combined heat and power systems are very efficient for domestic use, particularly in places where reticulated natural gas and hot water central heating are the norm. 'Distributed generation' also minimises transmission losses through national grids, reducing the need to increase centralised generating capacity and transmission networks.
Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02.	850300	Parts for 850231 and optional ex-out may include : 850239c	Parts of the generators and generating sets listed under item 310 (for renewable energy systems). Relevant parts include for instance nacelles and blades for wind turbines.
Static converters	850440	Inverters for use with machines of 850239 and 854140 to produce electricity.	Converts 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 such as, kitchen appliances, microwaves, TV's, radios, computers and so on.
Photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes.	854140	Photovoltaic cells, modules and panels.	Solar photovoltaic cells generate electricity in an environmentally benign manner (with no emissions, noise or heat generated). They are particularly suited to electricity generation in locations remote from an electricity grid.

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HS CODE/DESCRIPTION	HS (2002)	EX-OUT / ADDITIONAL PRODUCT SPECIFICATION	REMARKS / ENVIRONMENTAL BENEFIT
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; Other: Lenses prisms mirrors optical element not optically worked.	900190	Solar concentrator systems.	Used to concentrate and intensify solar power in a solar energy system.
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; Other: Prism, mirrors, mounted and parts and accessories, not elsewhere specified or included	900290	Solar concentrator systems.	Used to concentrate and intensify solar power in a solar energy system.
Automatic regulating or controlling instruments, other	903289	<i>Optional ex-outs may include: Fluctuostat, temperature sensor for solar boiler/water heater; Differential temperature controller for solar boiler/water heater.</i>	These include other 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.
Boards, panels, consoles, desks, cabinets and other bases, equipped with 2 or more app. of 85.35/85.36, for electrical control..., for a voltage not exceeding 1000V	853710	Photovoltaic system controller.	Device to control the functioning of the PV system.
Electric accumulators, including separators thereof, whether or not reed. (incl. square), lead-acid (exclusive of 8507.10)	850720	Deep discharge (solar) battery.	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.
Compression-type refrigerating, freezing equipment whose condensers are heat exchangers; Refrigerating, freezing equipment, not elsewhere specified in 84.18; heat pumps and Air-conditioning machines incorporating a refrigerating unit and a valve for reversal of the cooling/heat cycle (reversible heat pumps)	841861; 841869 and 841581	Geothermal heat pump system.	Such systems transfer ("pump") the heat available in land and water masses to either heat or cool buildings.
Glass fibres (including glass wool) and articles thereof (for example, yarn, woven fabrics): Mats	701931	Mats for soundproofing and thermal insulation of buildings.	These mats help save energy and reduce noise levels in buildings.
Heat exchange units, whether or not electrically heated	841950	<i>Optional ex-out may include heat exchangers for use in renewable energy system.</i>	Some heat exchangers are specifically designed for use in relation to renewable energy sources such as geothermal energy.
Gas meters-including calibrating meters thereof	902810		Meters are necessary to measure and regulate use and hence enable more efficient use of the resource. In particular, these gas meters are generally designed for use with natural gas and propane, but may include those designed for other gases such as helium.
Liquid meters including calibrating meters thereof	902820	<i>Optional ex-out may include: Water consumption meters.</i>	These 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 scarce resource.
Electricity meters	902830		These products include those designed to measure electricity flow in residential, commercial, and industrial consumption of electricity.
Parts and accessories for articles of subheading 9028:	902890	<i>Optional ex-out may include: Parts for 902810, 902820(s), 902830.</i>	These are parts and accessories for the gas, liquid, and electricity meters classified in 9028 and described above.

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HS CODE DESCRIPTION	HS (2002)	EX-OUT / ADDITIONAL PRODUCT SPECIFICATION	REMARKS / ENVIRONMENTAL BENEFIT
Non wovens, whether or not impregnated, coated, covered or laminated: Of man-made filaments: Weighing more than 150 g/m ² .	560314	Landfill drainage mats, Fabric of polyethylene, polypropylene, or nylon for filtering wastewater, Filter cloth (PP, PP, Nylon) Filter bag (sleeve).	Used to ensure efficient leachate or gas landfill drainage.
Ceramic sinks, wash basins, wash basin pedestals, baths, bidets, water closet pans, flushing cisterns, urinals and similar sanitary fixtures: Of porcelain or china.	691010	Waterless urinal, composting toilet.	Waterless urinals and composting toilets minimise water use. Composting toilets also provide self contained sewage treatment on site, with no need for sewers and treatment plants. These items also do not pollute ground or surface water or soil (unlike septic tanks or pit latrines) and produce safe, useful compost.
Tubes, pipes and hollow profiles, of cast iron:	730300	Cast iron pipes, gutters and manholes for waste and potable water applications.	These items facilitate the delivery of safe drinking water and sanitation.
Tubes, pipes and hollow profiles, seamless, of iron (other than cast iron) or steel: Other than Line pipe of a kind used for oil or gas pipelines.	730431 to 730490	Iron or steel pipes, gutters and manholes for waste and potable water applications.	These items facilitate the delivery of safe drinking water and sanitation.
Other tubes, pipes and hollow profiles (for example, open seam or welded, riveted or similarly closed), of iron or steel: Other:	730630 to 730690	Iron or steel pipes gutters and manholes for waste and potable water applications.	These items facilitate the delivery of safe drinking water and sanitation.
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; Tanks etc, over 300 litres capacity, iron or steel; Reservoirs, tanks, vats and similar containers, capacity >300L, iron or steel (ex liq/compr gas type); Reservoirs, tanks, vats and similar containers, of iron or steel, > 300 litres	730900	<i>Optional ex-outs may include: Tanks or vats for anaerobic digesters for biomass gasification; Solar pre-heating storage tanks; Waste containers including those for municipal or hazardous waste; Cisterns, vats and reservoirs for safe storage of drinking water; Septic tanks, vats and reservoirs for wastewater treatment.</i>	Containers of any material, of any form, for liquid or solid waste, including for municipal or dangerous waste. The containers can be of assistance in the conversion of waste to gas, which can be used to generate energy.
Tanks, casks, drums, cans, boxes and similar containers, for any material (other than compressed or liquefied gas), of iron or steel, of a capacity not exceeding 300 l, whether or not lined or heat-insulated, but not fitted with mechanical or thermal equipment: Of a capacity of 50 l or more: Composting systems of organic matter.	731010	Waste containers including those for municipal or hazardous waste. Waste silos.	For handling and storage of wastewater/sewage during treatment. Containers of any material, of any form, for liquid or solid waste, including for municipal or dangerous waste.
Tanks, casks, drums, cans, boxes and similar containers, for any material (other than compressed or liquefied gas), of iron or steel, of a capacity not exceeding 300 l, whether or not lined or heat-insulated, but not fitted with mechanical or thermal equipment: Of a capacity of less than 50 l: Other (excluding containers fitted with mechanical or thermal equipment, and cans); Other cans which are to be closed by soldering or crimping, capacity less 50l.	731029	Waste containers, whether or not combined with a compactor.	Containers of any material, of any form, for liquid or solid waste, including for municipal or dangerous waste.
Sanitary ware and parts thereof, of iron or steel: Exclusive of 732410 - 732429.	732490	Water saving shower. Water closet pans and flushing cisterns/urinals including dry closets.	Water conserving showers (provided with a specific water-efficiency shower head) and dry closets (operating on the basis of composting) are designed to conserve water.
Other cast articles of iron or steel; of non-malleable cast iron	732510	Sewage, water etc systems.	These items facilitate the delivery of safe drinking water and sanitation.

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IIS CODE DESCRIPTION	IIS (2002)	EX OUT/ ADDITIONAL PRODUCT SPECIFICATION	REMARKS / ENVIRONMENTAL BENEFIT
Other articles of iron or steel: Other.	732690	Perforated buckets and similar articles of sheet used to filter water at the entrance to drains.	These items facilitate the delivery of safe drinking water and sanitation, which are key MDG priorities
Hand pumps, other than those of subheading 8413.11 or 8413.19	841320		For handling and transport of wastewater or slurries during treatment.
Other reciprocating positive displacement pumps	841350	<i>Optional ex-out may include: Pumps for sewage and wastewater treatment.</i>	For handling and transport of wastewater or slurries during treatment.
Other rotary positive displacement pumps	841360	Submersible mixer pump; screw type; flow volume not less than 3m ³ /min.	For handling and transport of wastewater or slurries during treatment.
Other centrifugal pumps	841370	Centrifugal pumps (RPPF, PVDF, Ti, Viton, Seal) lined to prevent corrosion; motor output power not less than 0.4kw.	For handling and transport of wastewater or slurries during treatment.
Pumps for liquids, whether or not fitted with a measuring device: other pumps	841381	<i>Optional ex-out may include: pumps integrated with wind turbines; solar pumping system.</i>	Water handling equipment. Pumps are integral components of water treatment plants.
Dryers, other:	841939	Sludge driers.	Device used in waste water management, which requires sludge to be treated
Filtering or purifying machinery and apparatus for liquids: for filtering or purifying water	842121		Used to filter and purify water for a variety of environmental, industrial and scientific applications, including water treatment plants and wastewater treatment facilities.
Filtering or purifying machinery and apparatus for liquids: other.	842129		Used to remove contaminants from wastewater, by chemical recovery, oil/water separation, screening or straining.
Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases: Parts (other than of centrifuges and centrifugal dryers):Filtering or purifying machinery and apparatus for water and parts thereof	842199	Parts for 842121 and 842129.	Including sludge belt filter presses and belt thickeners.
Other continuous-action elevators and conveyors for goods or materials: Other, belt type.	842833	<i>Optional ex-out may include troughed belt (clear type) conveyor; length above 4m, transfer capacity not less than 20m³/hr.</i>	For transport of waste around the treatment plant.
Pressure-reducing valves	848110		For handling and transport of wastewater or slurries during treatment.
Taps, cocks, valves and similar appliances for pipes, boiler shells, tanks, vats or the like, including pressure-reducing valves and thermostatically controlled valves (other than parts).	848110 to 848180	<i>Optional ex-out may include: Taps, cocks and valves for water and wastewater.</i>	These items facilitate the delivery of safe drinking water and sanitation, which are key MDG priorities.
Check (non-return) valves	848130		For handling and transport of wastewater or slurries during treatment.
Safety or relief valves	848140		For handling and transport of wastewater or slurries during treatment.
Other appliances for pipes, boiler shells, tanks, vats or the like	848180		For handling and transport of wastewater or slurries during treatment for those applied to wastewater facilities.
Taps, cocks, valves and similar appliances for pipes, boiler shells, tanks, vats or the like, including pressure-reducing valves and thermostatically controlled valves: Parts:	848190		For effective management, control, handling and transport of water.

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HS CODE DESCRIPTION	HS (2002)	EX-OUT / ADDITIONAL PRODUCT SPECIFICATION	REMARKS / ENVIRONMENTAL BENEFIT
Other electrical machines and apparatus having individual functions, not elsewhere specified in chapter 85.	854389	Ozone production system; Ultraviolet water disinfection/treatment 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. Water disinfection Ozone (O3) can be used as an alternative to chlorine for water disinfection.
Parts of the machines and apparatus of 85.43	854390	Parts for 854389x.	Water disinfection.
Jute and other textile bast fibres (excluding flax, true hemp and ramie), raw or processed but not spun; tow and waste of these fibres (including yarn waste and garnetted stock).	530310		The natural fibre composition differentiates jute from alternative synthetic materials due to its biodegradability and sustainable sources. Jute fibers are used for packaging and woven fabric.
Sisal other textile fibres of the genus <i>Agave</i> raw	530410		The natural fibre composition differentiates sisal from alternative synthetic materials due to its biodegradability and sustainable sources. Sisal fibres also used in recycled paper.
Sisal and other textile fibres of the genus <i>Agave</i> , processed but not spun; tow and waste of these fibres (including yarn waste and garnetted stock).	530490		The natural fibre composition differentiates sisal from alternative synthetic materials due to its biodegradability and sustainable sources. Sisal fibres also used in recycled paper.
Twine, cordage, ropes and cables, whether or not plaited or braided and whether or not impregnated, coated, covered or sheathed with rubber or plastics: Of jute or other textile bast fibres of heading 53.03.	560710		More biodegradable than synthetic fibre alternatives and made from a renewable resource.
Twine, cordage, ropes and cables whether or not plaited or braided and whether or not impregnated, coated, covered or sheathed with rubber or plastics: Of sisal or other textile fibres of the genus <i>Agave</i> ; Binder or binder twine	560721		More biodegradable than synthetic fibre alternatives and made from a renewable resource.
Sacks and bags, of a kind used for the packing of goods: Of jute or of other textile bast fibres of heading 53.03.	630510		More biodegradable than synthetic fibre alternatives and made from a renewable resource.
Cooking appliances and plate warmers: For gas fuel or for both gas and other fuels.	732111	Solar stoves.	Uses solar thermal energy for cooking, thereby producing no air pollution. The use of solar stoves is replacing heating with firewood or other non-renewable energy sources (e.g. oil, gas) and allows for preservation of firewood (especially important in arid areas) and is suitable for off-grid usage.
Stoves, ranges, grates, cookers (including those with subsidiary boilers for central heating), barbecues, braziers, gas-rings, plate warmers and similar non-electric domestic appliances, and parts thereof, of iron or steel: Parts.	732190	As applicable to solar stoves.	Parts are used in the maintenance and repair of solar stoves (see item 183 for the environmental benefits).
Other primary cells and primary batteries	850680	Fuel cells.	Fuel cells use hydrogen or hydrogen-containing fuels such as methane to produce an electric current, through an electrochemical process rather than combustion. Fuel cells are clean, quiet, and highly efficient sources of electricity.
Electro-mechanical domestic appliances, with self-contained electric motor: Other.	850980	Composting degraders with electrical heating systems; or using bacterial decomposing processes or hot-air drying processes.	These items are used to break down food and other garbage from households and the food industry. Such products help <i>inter alia</i> to reduce land fill volumes.
Photogrammetrical surveying instruments and appliances	901540		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 managing natural risks such as floods, earthquakes.

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IIS CODE DESCRIPTION	IIS (2002)	EX OUT / ADDITIONAL PRODUCT SPECIFICATION	REMARKS / ENVIRONMENTAL BENEFIT
Other surveying, hydrographic, oceanographic, hydrological, meteorological or geophysical instruments and appliances, excluding compasses, not elsewhere specified in 90.15	901580		Includes instrument and appliances necessary for measuring the ozone layer and to monitor, measure and assist planning for natural risks such as earthquakes, cyclones, tsunamis etc.
Parts and accessories of the instruments and appliances of 90.15	901590	Parts for 901530, 901540 and 901580.	Parts used in maintenance and repair of the items 389, 390 and 388 with the attendant environmental benefits.
Made-up fishing nets of man-made textile materials.	560811	Specifically made-up fishing nets that incorporate turtle excluder devices.	Use of Turtle Excluder Devices (TEDs) reduces turtle mortality by 90-100 per cent.
Knotted netting of twine, cordage or rope; made up fishing nets and other made up nets, of textile materials; Other than made-up fishing nets of manmade textile materials; Knot net of twine made-up fish net textile materials not elsewhere specified or included.	560890	Made-up fishing nets that incorporate turtle excluder devices.	Use of Turtle Excluder Devices (TEDs) reduces turtle mortality by 90-100 per cent.
Fish-hooks, whether or not snelled.	950720	Circle hooks.	These rounded, "circle-shaped" hooks reduce sea turtle mortality 60-90 per cent over conventional "J-shaped" hooks.
Agglomerated cork (with or without a binding substance) and articles of agglomerated cork: Panels, boards, tiles, blocks and similar articles of agglomerated cork	450410	Cork underlay in sheets and rolls.	Assists in the reduction of noise levels in buildings.
Parts suitable for use solely or principally with the engines of heading No. 84.07 or 84.08: Other: Suitable for use solely or principally with spark-ignition internal combustion piston engines.	940991	Industrial mufflers.	Industrial mufflers are used for reducing engine noise.
Parts suitable for use solely or principally with the engines of heading No. 84.07 or 84.08: Other.	940999	Industrial mufflers.	Industrial mufflers are used for reducing engine noise.
Machines for balancing mechanical parts.	903110		Environmental applications of these machines include balancing of parts and equipment to minimise noise and vibration.
Levels: Hydrological, oceanographic, meteorological instruments and appliances. Exclusive of 90.31	901530		Includes levels used for environmental purposes such as measuring the ozone layer, elements of climate change etc.
Instruments and apparatus for measuring or checking the flow or level of liquid	902610		Meters, which check and record the level and/or flow of liquids or gases, are routinely used during complex auditing and testing to ensure the efficient operation of environmental systems such as water and wastewater treatment plants, air pollution control systems, and hydroelectric facilities.
Instruments and apparatus for measuring or checking pressure	902620		Manometers (devices that measure pressure) are used in power plants, water delivery systems, and other applications such as monitoring indoor air. There are two principal types: digital manometers and tube manometers, both of which have important environmental applications.
Other instruments and apparatus	902680		These instruments include heat meters that are used to monitor and measure the distribution of heat from geothermal or biomass district heating systems.
Parts and accessories for articles of subheading 9026	902690		These are parts for the instruments and devices in 9026.10, 9026.20, and 9026.80.
Gas or smoke analysis apparatus	902710		Gas analyzers are designed to continuously monitor single or multiple gas components, and such an instrument is used to analyze air emissions from automobiles.

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Dostlar Listesi

HS CODE DESCRIPTION	HS (2002)	EX-OUT / ADDITIONAL PRODUCT SPECIFICATION	REMARKS / ENVIRONMENTAL BENEFIT
Chromatographs and electrophoresis instruments	902720		Gas and liquid chromatographs use an analytical method where a physical separation of the sample components occurs prior to detection. These instruments can be used to monitor and analyze air pollution emissions, ambient air quality, water quality, etc. Electrophoresis instruments can be used to monitor and analyze materials such as particulates emitted from incinerators or from diesel exhaust.
Spectrometers, spectrophotometers and spectrographs using optical radiations (UV, visible, IR)	902730		Spectrometers are used in a wide range of environmental applications, including to identify and characterize unknown chemicals and in environmental applications to detect toxins and identify trace contaminants. They are also used for qualitative and quantitative analysis <i>inter alia</i> in quality control departments, environmental control, water management, food processing, agriculture and weather monitoring.
Exposure meters	902740		Exposure meters are used, <i>inter alia</i> , to control light sources and for measurements in agriculture, horticulture, and other natural resources applications.
Other instruments and apparatus using optical radiations (UV, visible, IR)	902750		These instruments can be used for chemical, thermal, or optical analysis of samples, including water quality photometers which are used to determine the concentration of a solution from its color intensity.
Instruments and apparatus for physical or chemical analysis not elsewhere specified in 90.27.	902780	<i>Optional ex-out may include: For analyzing noise, air, water and hydrocarbons and heavy metals in soil.</i>	These instruments include: magnetic resonance instruments which are used in biologic and geologic analysis; and mass spectrometers which are used to identify elements and compounds.
Microtomes, parts and accessories of instruments and appliances of 90.27.	902790	<i>Optional ex-outs may include: Parts for 902740 and 902780x.</i>	These instruments include microtomes which are devices that prepare slices of samples for analysis. Also included here are parts of the instruments classified in 9027 and described above.
Instruments and apparatus for measuring or detecting ionizing radiations.	903010		These items are used for the purpose of detecting the presence of ionizing radiation and may, for instance, include Geiger counters that are useful in performing surveys for radioactivity contamination.
Cathode-ray oscilloscopes and cathode-ray oscillographs.	903020		Oscilloscopes are used to translate an electronic signal into a pattern on a screen. These instruments are used for testing and calibrating laboratory equipment.
Multimeters.	903031		These products measure electrical flow, including current, resistance, voltage, frequency, temperature and in this way are used to identify electronic and electrical problems in equipment.
Other instruments and apparatus, for measuring or checking voltage, current, resistance or power, without a recording device.	903039	<i>Optional ex-outs may include: Volt meters, Am meters, Circuit testers, Resistance meters, Galvano meters</i>	These instruments include single function meters. An ammeter measures current, a voltmeter measures voltage, and an ohmmeter measures resistance. These instruments are also used to find problems in equipment.
Other instruments and apparatus for measuring or checking electrical quantities, with a recording device.	903083		These instruments are similar to those above, but include componentry that is a recording device - these add a further technical element to the process of identifying electrical problems in equipment.
Other instruments and apparatus for measuring or checking electrical quantities.	903089		These instruments are similar to those above, and are used to identify electrical faults.
Parts and accessories of Heading 90.30.	903090	<i>Optional ex-out may include: Parts and accessories for nominated articles of subheading 903010.</i>	See above goods of subheading 9030.

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Dostlar Listesi

HS CODE DESCRIPTION	HS (2002)	EX-OUT / ADDITIONAL PRODUCT SPECIFICATION	REMARKS / ENVIRONMENTAL BENEFIT
Test benches.	903120		Test benches are used to test designs and equipment, such as components or subsystems of a solar power plant.
Profile projectors.	903130		Profile projectors are used for critical tasks in engineering such as measuring and inspecting high precision, complex parts in many applications and industries.
Other measuring and checking instruments, appliances and machines, not specified or included elsewhere in this chapter. Other optical instruments, appliances and machines elsewhere specified for measuring or checking.	903149		Equipment used in the measurement, recording, analysis and assessment of environmental samples or environmental impact.
Other instruments, appliances and machines.	903180	<i>Optional ex-out may include: Vibrometers, hand vibration meters</i>	These products include <i>inter alia</i> , items such as vibrometers (that measure vibrations and assess structural and other effects of such vibrations) and electron microscopes for laboratory and testing applications.
Parts and accessories of the instruments and appliances and machines of 90.31.	903190	<i>Optional ex-out may include: Parts for 903180x.</i>	These are parts for the equipment classified in 9031 and described above.
Thermostats.	903210		Products include thermostats that control the efficiency of air conditioning, refrigeration or heating systems.
Manostats.	903220		Manostats measure and monitor pressure and are used for controlling pumps and chemical feed equipment in applications such as wastewater treatment.
Hydraulic and pneumatic instruments and apparatus.	903281		These include control-related instruments and apparatus which have many environmental applications such as water treatment, wastewater treatment, air pollution control as well as efficient process controls for many industrial applications.
Parts and accessories for nominated articles of subheading 9032.	903290		These are the parts for the automatic regulating and control instruments classified in 9032 and described.
Parts and accessories (not specified or included elsewhere in this Chapter) for machines, appliances, instruments or apparatus of Chapter 90.	903300		These are the parts and accessories for the products described above.

**20th APEC ECONOMIC LEADERS' Declaration
Vladivostok, Russia**

ANNEX C

APEC LIST OF ENVIRONMENTAL GOODS

APEC plays an important role in pursuing green growth in the region. While each economy has its own environmental and trade policies, it is vitally important to pursue common approaches to environmental challenges, and take coordinated actions to address climate change, such as promoting trade and investment in goods and services needed to protect our environment and developing and disseminating relevant technologies.

Trade and investment liberalization in environmental goods will help APEC businesses and citizens access important environmental technologies at lower cost, which in turn will facilitate their use and benefit the environment. In addition, it will contribute significantly to APEC's core mission to promote free and open trade and investment, as embodied in the Bogor Goals.

In that light, we are pleased to endorse the below APEC List of Environmental Goods that directly and positively contribute to green growth and sustainable development objectives on which we will reduce applied tariff rates to 5 per cent or less by the end of 2015 taking into account economies' economic circumstances and without prejudice to their positions in the World Trade Organization (WTO), as we committed in 2011.

We commit to continue capacity-building activities to assist economies in implementing tariff reductions on the agreed list of environmental goods.

We believe that reducing our tariffs on environmental goods demonstrates our commitment to pursuing green growth objectives, addressing climate change and securing sustainable economic development, and are committed to continuing APEC's leadership role in this regard.

APEC LIST OF ENVIRONMENTAL GOODS

HS (2002)	HS (2007)	HS (2012)	HS Code Description	EX-OUT / ADDITIONAL Product Specification	REMARKS / ENVIRONMENTAL BENEFIT
	441872		Other Assembled Flooring Panels, Multilayer, of Bamboo (44187210)		Renewable bamboo-based products are substitutions of wooden necessities. Since bamboo is characterized by short growing cycle, these environment-friendly products can save a great deal of water, soil and air resources.
840290	840290	840290	<p>Steam or other vapour generating boilers (other than central heating hot water boilers capable also of producing low pressure steam); super-heated water boilers. [Ca, J, NZ, K]</p> <p>Steam or other vapour generating boilers (other than central heating hot water boilers capable also of producing low pressure steam); super-heated water boilers; Parts: [US]</p> <p>Parts for super-heated water boilers and steam or other vapour generation boilers (other than central heating hot water boilers) [HK]</p> <p>Super-heated water boilers and parts of steam generating boilers [S, BD]</p>	<p>Parts for 840219x. [Ca, J, NZ, K, Au]</p> <p>Parts for biomass boilers. [US]</p> <p>Management of solid and hazardous waste [BD]</p>	<p>Parts for the biomass boilers described above. [Ca, J, NZ, US, K, HK, Au]</p> <p>Parts for the boilers for the production of heat and power on the basis of (renewable) biomass fuels. [HK]</p> <p>Part for biomass boilers for the production of heat and power on the basis of renewable biomass fuels. This product should be seen in relation to HS840210, biomass boiler. Biomass in heating systems uses agricultural, forest, urban and industrial residues and waste to produce heat and electricity with less effect on the environment than fossil fuels. This type of energy production has a limited long term effect on the environment because the carbon in biomass is part of the natural carbon cycle. [S, BD]</p>
840410	840410	840410	<p>Auxiliary plant for use with boilers of heading 84.02 or 84.03 (for example, economisers, super-heaters, soot removers, gas recovers); condensers for steam or other vapour power units. [C, J, NZ, K, Au, Ru, M, BD]</p> <p>Auxiliary plant for use with boilers of heading 8402 or 8403 (for example, economizers, super-heaters, soot removers, gas recovers). [US]</p> <p>Auxiliary plant for use with steam or other vapour generating boilers, super-heated water boilers and central heating boilers. [HK]</p> <p>Auxiliary plant for steam, water and central boiler [S]</p>	<p>Auxiliary plant for use with 840219x. [Ca, J, NZ, K, Au]</p> <p>For central heating boilers of heading 8403 [M, BD]</p>	<p>Components of industrial air pollution control plant which 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. [Ca, J, NZ, K, Au, BD]</p> <p>Components of industrial air pollution control plant which minimise the release of pollutants into the atmosphere. This equipment is also used to support waste heat recovery processes in waste treatment, [biomass energy generation - US only] and other renewable energy resource recovery applications. [US, HK, M]</p> <p>These are soot removers and components of industrial air pollution control plant, which 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. [S]</p>
840420		840420	Auxiliary plant for use with boilers of heading 84.02 or 84.03 (for example, economisers, super-heaters, soot removers, gas recovers); condensers for steam or other vapour power units.		Used to cool gas streams to temperatures which allow the removal of contaminants, e.g. volatile organic compounds (VOC) like benzene.
840490	840490	840490	<p>Parts for auxiliary plant for boilers, condensers for steam, vapour power unit. [Ca, J, NZ, K]</p> <p>Auxiliary plant for use with boilers of heading 8402 or 8403 (for example, economizers, super-heaters, soot removers, gas recovers); condensers for steam or other vapour power units; Parts: [US, Au, Ru]</p> <p>Parts for subheading 840410100 [M, BD]</p>	Air pollution control [BD]	<p>These parts are used in the repair and maintenance of the equipment classified under 840410 above. 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. [C, J, NZ, US, Au, R, Th, M]</p> <p>Components of industrial air pollution control plant which 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. [BD]</p>

840690	840690	840690	<p>Parts for steam and other vapour turbines. [Ca, J, NZ, K, Au, BD]</p> <p>Parts of steam turbines. [US, M]</p>	<p>Optional ex-outs may include parts suitable for use with stationary steam turbines over 40MW; stationary steam turbines not over 40 MW, other vapour turbines; parts for 840681x and 840682x. [Ca, J, NZ, K, Au]</p> <p>Parts for 840681x and 840682x. [US]</p> <p>Renewable energy plant [BD]</p> <p>Only for stator blades, rotors and their blades [R]</p>	<p>Parts used for repair and maintenance of energy recovery turbines listed in 840681 and 840682 above. [Ca, J, NZ, K, Au]</p> <p>Parts for the aforementioned ex-outs/goods of 8406 [US]</p> <p>Turbines designed for the production of geothermal energy (renewable energy) and co-generation ((CHP) which allows for a more effective use of energy than conventional generation) [BD]</p>
841182	841182	841182	<p>Other gas turbines of a power exceeding 5,000 kW. [Ca, J, NZ, US, Au, Th, S, BD]</p> <p>Gas turbines, except turbo-jets and turbo-propellers, of a power exceeding 5,000 kW. [HK]</p> <p>Turbojets, turbo-propellers and other gas turbines of a power exceeding 5,000 kW [M]</p>	<p>Possible ex-out may include gas turbines that burn natural gas [Au]</p> <p>Gas turbines for electrical generation from recovered landfill gas (exceeding 5,000 kW) [BD]</p> <p>Of a power exceeding 5000 kW but not exceeding 50 000 kW [R]</p>	<p>Gas turbines for electrical power generation from recovered landfill gas, coal mine vent gas, or biogas (clean energy system). Note that these turbines do "exceed 5,000 kW". [Ca, J, HK, NZ, Au, M, BD]</p> <p>Gas turbines for clean power generation including recovered landfill gas, coal mine vent gas, or biogas. [US]</p> <p>Gas turbines are used for electrical power generation from recovered landfill gas, coal mine vent gas, biogas or national gas. Lower emission of pollutants compared with traditional fire power generation methods. [S]</p>
		841189	Parts of gas turbines.	Parts for 841181 and 841182.	Parts for gas turbines described above.
	841290	841290	<p>Engine and motor parts, nescl [US]</p> <p>Parts of the engines & motors of 8412.10-8412.80 [S, BD]</p>	<p>Wind turbine blades and hubs [US]</p> <p>Only for civil aviation [R]</p>	<p>These blades and hubs are integral components to wind turbines. [US]</p> <p>Parts thereof wind turbines. Parts used for repair and maintenance of wind turbines with the attendant benefits. [S, BD]</p>
841780	841780	841780	<p>Other industrial or laboratory furnaces and ovens, including incinerators, non-electric [Ca, J, NZ, K, Au, Ru, M, BD]</p> <p>Industrial or laboratory furnaces and ovens, including incinerators, nonelectric, and parts thereof. Other, except parts. [US]</p> <p>Municipal Waste Incinerator (ex-84178000); incinerators for radioactive waste (84178020) [Ch]</p>	<p>Optional ex-outs may include: waste incinerators; heat or catalytic incinerators. [Ca, J, NZ, K, Au, M]</p> <p>Waste incinerators; Heat or catalytic incinerators [US]</p> <p>Waste incinerator; Flue gas treatment system for incinerator [BD]</p>	<p>These products are used to destroy solid and hazardous wastes. Catalytic incinerators are designed for the destruction of pollutants (such as VOC) by heating polluted air and oxidation of organic components. [Ca, J, NZ, K, Au, M, US, BD]</p> <p>Used to achieve innocent treatment and disinfection of household waste through high-temperature incineration disposal. Used for radioactive waste disposal. [Ch]</p>
841790	841790	841790	<p>Industrial or laboratory furnaces and ovens, including incinerators, non-electric: Parts. [Ca, J, NZ, K, Au, Ru, M]</p> <p>Industrial or laboratory furnaces and ovens, including incinerators, nonelectric, and parts thereof: Parts. [US]</p> <p>Parts [BD]</p>	<p>Optional ex-outs may include: parts for 841780x. [Ca, J, NZ, K, Au]</p> <p>Parts of waste incinerators and heat or catalytic incinerators. [US, BD]</p>	<p>These parts can help maintain and repair products that are used to destroy solid and hazardous wastes. Similarly, the parts for catalytic incinerators can help maintain and repair items that can assist in the destruction of pollutants (such as VOC) by heating polluted air and oxidation of organic components. [Ca, J, NZ, US, K, Au, R, BD]</p>
841919	841919	841919	<p>Instantaneous or storage water heaters, non-electric (other than instantaneous gas water heaters). [Ca, J, NZ, K, HK, BD]</p> <p>Instantaneous or storage water heaters, non-electric: Other [US, Au]</p> <p>Solar water heaters [S]</p> <p>Solar water heaters (84191910) [Ch]</p>	<p>Solar water heaters. [Ca, J, NZ, US, K, HK, Au, BD]</p> <p>Excluding other -- Domestic; of copper and other [M]</p>	<p>Uses solar thermal energy to heat water, producing no pollution. Use of solar water heating displaces the burning of other, pollution-creating fuels. [Ca, J, NZ, US, K, HK, Au, Th]</p> <p>Uses solar energy to heat water, producing no pollution. Use of solar water heating displaces the burning of other pollution-creating fuels, [S, BD]</p> <p>Used for water heating through solar energy which is regenerative and clean compared to burning fuel. [Ch]</p>

841939	841939	841939	Dryers, other:	Sludge driers.	Device used in waste water management, which requires sludge to be treated
841960	841960	841960	Machinery for liquefying air or other gases.		For separation and removal of pollutants through condensation. [Ca, J, NZ, US, K, Au] Air Pollution Control. Used in condensation to remove condense contaminants from vapor to liquid form for easier removal and storage [Th]
841989	841989	841989	Machinery, plant or laboratory equipment, whether or not electrically heated (excluding furnaces, ovens and other equipment of heading 86.14), 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. [Ca, J, NZ, Au] Industrial machinery, plant or equipment for the treatment of materials, by process involving a change in temperature, nesol. [US] Machinery, plant or laboratory equipment - Other machinery, plant and equipment: Other. [Ru] Chlorine dioxide generator: Other Machinery, Plant & Equip For Treat of Mat. B (84198900) [Ch] Other machinery, plant or laboratory equipment [S]	Evaporators and dryers, for water and waste water treatment. Condensers and cooling towers. Biogas reactors; digestion tanks and biogas refinement equipment. [Ca, J, NZ, Au] Evaporators and dryers, for water and waste water treatment. Condensers and cooling towers. Anaerobic biogas reactors, digestion tanks and biogas refinement equipment. PV cell coolers. [US]	For processing water and waste water and the separation and removal of pollutants through condensation. Includes fluidised bed systems (bubbling, circulating, etc.) and biomass boilers. Can also help anaerobic digestion of organic matter. [Ca, J, NZ, Au] For processing water and waste water and the separation and removal of pollutants. Includes fluidised bed systems (bubbling, circulating, etc.) and biomass boilers. Can also help anaerobic digestion of organic matter. Wet cooling towers are very efficient air scrubbers. PV cells generate renewable energy. [US] Used in producing chlorine dioxide. These instruments are used to measure, record, analyse and assess environmental samples or environmental influences. [Ch] Thermal cyclers serving multiple environmental purposes.
841990	841990	841990	Parts of machinery, plant and equipment (BD) of heading No 84.19. [Ca, J, NZ, CT, Au, Ru] Parts of machinery, plant or laboratory equipment for the treatment of material involving temperature change (except domestic machinery), nesol. [US] Parts of machinery, plant or laboratory equipment of heading 84.19 [S] Parts, other [M] Parts of Water Heaters (84199010) [Ch]	Optional ex-outs may include: Parts for 8419.19 ex, including for solar boiler/water heater; insulation, temperature sensor for solar boiler/water heater; Differential temperature controller for solar boiler/water heater; Evacuated glass tubes for solar boiler/water heater; Heat pipes for solar boiler/water heater. Parts of 841940x, 841950x, 841960, 841989x [Ca, J, NZ, CT, Au] excluding 841990100, 841990200, 841990300 [M] Solar water heater parts [BD]	Parts used in the maintenance and repair of solar water heaters (etc.) which use solar thermal energy to heat water, producing no pollution. Use of solar water heating displaces the burning of other, pollution-creating fuels. [Ca, J, NZ, CT, Au] Parts for aforementioned goods/ex-outs of heading 8419. [US] Parts used in the maintenance and repair of the above products. [S] These are parts and accessories for the solar water heater classified in 8419 and described above [BD] Used for water heating through solar energy which is regenerative and clean compared to burning fuel. [Ch]
842121	842121	842121	Filtering or purifying machinery and apparatus for liquids; for filtering or purifying water. [Ca, J, NZ, K, Au, Ru, S] Water filtering or purifying [M] machinery and apparatus. [US, BD] Household filtering or purifying water machinery and equipment (84212110). Device for the removal of heavy metal ions for industry uses; Membrane bioreactor; High rate anaerobic reactors; reverse	Waste water management [BD]	Used to filter and purify water for a variety of environmental, industrial and scientific applications, including water treatment plants and wastewater treatment facilities. [Ca, J, NZ, K, Au] Used to filter and purify water for a variety of environmental, industrial and scientific applications, including water treatment plants and wastewater treatment facilities. This line also includes newer water/wastewater filtration technologies like ozone and ultraviolet disinfection equipment. [US]

			<p>osmosis filters for industry uses; Water purification Machine; EDI ultra-pure water equipment (ex-84212190) [Ch]</p>		<p>For wastewater. Used to filter and purify water for a variety of environmental, industrial and scientific applications including water treatment plants and wastewater treatment facilities. For instance, membrane systems can be used to produce water from wastewater, seawater or brackish groundwater, either through purification or filtration. [S]</p> <p>Such devices are essential components for filtration and purification of drinking water. [Ch]</p>
842129	842129	842129	<p>Filtering or purifying machinery and apparatus for liquids: other. [Ca, J, NZ, US, K, Au]</p> <p>Other [M]</p> <p>Press Filters (84212910); etching solution recycling equipment for printed circuit board; equipment for the recycling and treatment of reclaimed water; ion exchanger; complete sets of equipment for alkali recovery of black liquor; aerator; electrodialysis device (ex-84212990) [Ch]</p>	<p>Refrigerant recovery and recycling units. [US]</p> <p>excluding oil filter and for use in oil drilling operation [M]</p>	<p>Used to remove contaminants from wastewater, by chemical recovery, oil/water separation, screening or straining. [Ca, J, NZ, K]</p> <p>These units recover both liquid and gaseous refrigerants from refrigeration and air conditioning equipment and purify the refrigerant after its recovery. This process prevents the emission of a variety of air pollutants. [US]</p> <p>Excluding other filters of a kind used as components in motor vehicles. [Au]</p> <p>Used for filtration by injecting mechanical force on filtering media. [Ch]</p> <p>Etching solution is an essential component of PCB etching but is on kind of high pollutant. These equipment are designed for recycle-processing-reuse of etching solution through solvent extraction, membrane treatment and electrode method. [Ch]</p> <p>These equipment are used to turn wastewater into nonpotable water, which can be widely applied in irrigation, afforestation, flushing supply, etc. [Ch]</p> <p>These equipments are designed for water softening, alkali removal and desalination by ion exchange resins swapping bits of themselves with ions which have same electrical property in the pre-treated water under certain conditions. [Ch]</p> <p>These equipment, designed for the purification and recycling of black liquor, effectively eliminate pollution and improve resource utilization. Applications include pulp washing machine, pre-hung filter, putting-down machine, causticizer, etc. [Ch]</p> <p>Aerators both above and below the water's surface are essential components of oxygenic aeration of drainage. [Ch]</p> <p>Electrodialyzers exploit ion exchange membrane and DC electric field, making electrolytes develop migration selectivity, thereby desalinate the water. [Ch]</p>
842139	842139	842139	<p>Filtering or purifying machinery and apparatus for gas (other than intake air filters for internal combustion engines). [Ca, J, NZ, K, S]</p> <p>Filtering or purifying machinery and apparatus for gases, nesoi. [US, Au, Th]</p> <p>Laminar flow units [M]</p> <p>Filtering Purifying Machines For Gases Nes, Househ (84213910); Electrostatic Dust Collectors For Industry Uses (84213921); Baghouse Dust Collectors For Industry Uses (84213922); Cyclone Dust Collectors For Industry Uses</p>	<p>Optional ex-out may include: Catalytic converters / Gas separation equipment / Pneumatic fluid power filters rated at 550 kPa or greater / Industrial gas cleaning equipment / Electrostatic filters (precipitators). [Ca, J, NZ, K]</p> <p>Excluding other filters of a kind used as components in motor vehicles. [Au]</p> <p>Catalytic converters / Dust collection and air purification equipment / Gas separation equipment / Pneumatic fluid power filters rated at 550 kPa or greater / Industrial gas cleaning</p>	<p>Physical, mechanical, chemical or electrostatic filters and purifiers for the removal of COV, solid or liquid particles in gases, etc. [Ca, J, NZ, K, Au]</p> <p>Catalytic converters convert harmful pollutants, like carbon monoxide, into less harmful emissions. Other technologies in this line include physical, mechanical, chemical and electrostatic filters and purifiers for the removal of VOCs, solid or liquid particles in gases, etc. [US]</p> <p>For wastewater. Used to filter and purify water for a variety of environmental, industrial and scientific applications including water treatment plants and wastewater treatment facilities. For instance, membrane systems can be used to</p>

			(84213923); Other Dust Collectors for Industry Uses (84213929); Flue Gas Desulfurization Apparatus (84213940); Spraying Saturator; Concentrated adsorption - catalytic combustion equipment; Activated carbon fiber - granular activated carbon equipment; (ex-84213930) [Ch]	equipment / Electrostatic filters (precipitators) / Ozone disinfection equipment. [US] possible ex-out: air purifier and laminar flow units [M] Laminar flow units, catalytic converter and carbonyoxide removal unit imported to use at natural gas service station [Th]	produce water from wastewater, seawater or brackish groundwater, either through purification or filtration. [S] Air Pollution Control [Th] Indoor hazardous gas purification equipment, especially for formaldehyde and benzene. [Ch]
842199	842199	842199	Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases: parts (other than of centrifuges and centrifugal dryers): filtering or purifying machinery and apparatus for water and parts thereof. [Ca, J, NZ, K] Parts for filtering or purifying machinery and apparatus for liquids or gases [US] Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases: parts (other) [Au] for subheading 842129300 [M, BD] Parts Of Household Filtering and Purifying Machines For Gases (84219910) [Ch]	Parts for 842121 and 842129 [Ca, J, NZ, K], excluding parts for other filters of a kind used as components in motor vehicles [Au]. Parts for 842121, 842129x and 842139 [US]. Excluding for subheadings 842123100, 842129510 [M, BD].	Including sludge belt filter presses and belt thickeners [Ca, J, NZ, K, Au]. Parts for aforementioned goods/ex-outs of heading 8421. [US]
847420	847420	847420	Crushing or grinding machines. [Ca, J, NZ, US, K, CT, Au, Ru] Crushing/grinding machines for earth/stones/ores/other mineral substance, in solid (incl. powder/paste) form [S] 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. Crushing or grinding machines, mixing or kneading machines [M]	excluding concrete or mortar mixers [M, Au]	Used for solid waste treatment or recycling. Waste compactor machines. Used for solid waste treatment or recycling. [S]
847982	847982	847982	Mixing, kneading, crushing, grinding, screening, sifting, homogenising, emulsifying or stirring machines not elsewhere specified in Chapter 84. [Ca, J, NZ, K, CT, S] Mixing, kneading, crushing, grinding, screening, sifting, homogenizing, emulsifying or stirring machines. [US, Ru, BD] Waste sorting, screening, crushing, grinding, shredding, washing and compacting devices. Agitator for wastewater treatment: flash mixer and flocculator. [Au] Dosing and mixing equipment for water treatment (ex-84798200); Recycling equipment for waste plastics /rubber /broken tire (84798200) [Ch]	Waste sorting, screening, crushing, grinding, shredding, washing and compacting devices. Agitator for wastewater treatment; flash mixer and flocculator. [Ca, J, NZ, K, US, CT] Other machines and mechanical appliances: Mixing, kneading, crushing, grinding, screening, sifting, homogenising, emulsifying or stirring machines. [Au] Waste compactor machines [BD]	Used to prepare waste for recycling; mixing of wastewater during treatment; preparing organic waste for composting; (composting can minimise the amount of waste going to landfill as well as recovering the valuable nutrient and energy content of the waste). [Ca, J, NZ, K, CT, Au] Used to prepare waste for recycling; removing or shredding the rags and debris typically found in wastewater; mixing of wastewater during treatment; preparing organic waste for composting (composting can minimise the amount of waste going to landfill as well as recovering the valuable nutrient and energy content of the waste). [US, BD] Waste separator machines. Prepares waste for recycling; separating waste allows for more efficient treatment of each type; for example, separating organic waste allows for composting, which minimises the amount of waste going to landfill as well as recovering the

					valuable nutrient and energy content of the waste). [S] These equipments are used to release and mix medication, which is an essential step of putting flocculant in wastewater in water treatment industry. These equipments are designed for recycling waste tires. [Ch]
847989	847989	847989	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter: Other. [Ca, J, NZ, US, CT, Ru] Other machines & mechanical appliances, other than Machines & mechanical appliances for treating metal, incl. Industrial catalysers, electric wire coil-winders/ Mixing/ kneading/ crushing/ grinding/ screening/ sifting/ homogenising/ emulsifying/ stirring machines [S] Air Humidifiers Or Dehumidifiers (84799020); Machines For Squeezing Radioactive Waste (84798950); Suction Machine; Mud Scraper; Sand suction machine; Trash compactor; Vacuum extruder for making hollow brick with Gangue and fly ash; (Fan) muffler (ex-84798999) [Ch]	Optional ex-outs may include; trash and other waste presses; shredders; dust collection and storage devices; water and wastewater collecting and sampling equipment; chlorine generators; equipment for solid/liquid separation; flocculation or thickening of sewage sludge; machinery and apparatus for landfill gas monitoring; anaerobic digesters for treatment of organic waste including production of biogas; machinery and apparatus for landfill leachate treatment; machinery, apparatus and vehicles for composting; soil sampling equipment; soil remediation equipment; machines and appliances for oil spill recovery; and aquatic weed harvesters. [US, CT] Excluding machines and mechanical appliances used as components in motor vehicles. [Au]	Machines and appliances designed for a wide range of areas of environmental management including waste, waste water, drinking water production and soil remediation. In-vessel composting systems can handle large amounts of waste and speed up decomposition. Trash compactors reduce the volume of solid waste, allowing more efficient transport and disposal. Very broadly, products under HS847989 are machines and appliances designed for a wide range of areas of environmental management, including waste, waste water, drinking water production and soil remediation. [S] Parts to ensure the balance of indoor humidity. Travelling suction dredgers are designed for sewage treatment plants and horizontal sedimentation tanks of waterworks. These machines can scrape and assemble the sludge to the mouths of their pumps and remove it from sewage tank without stop. [Ch]
847990	847990	847990	Parts of the mach. and mech. appls. of 84.79 [Ca, J, NZ, CT, US, Ru] Parts of Machines & mechanical appliances having individual functions, not specified/incl. elsewhere in this Ch. [S] Parts Of Air Humidifiers Or Dehumidifiers (84799020) [Ch]	Parts for 8479902x and 847989x. [US, CT] Excluding machines and mechanical appliances used as components in motor vehicles. [Au]	See the environmental benefit under 847989 [Ca, J, NZ] Parts for aforementioned goods/ex-outs of heading 8479. [US] Parts thereof waste separator/ compactor machines. Parts used for the maintenance and repair of waste separators and compactor machines, with the attendant benefits, for example, membrane systems which can be assembled to recover resources from waste. [S] Parts to ensure the balance of indoor humidity [Ch]
850164	850164	850164	AC generators (alternator), of an output exceeding 750 kVA	To be used with turbines and generators in combination to produce electricity from renewable energy fuels [BD]	Used in conjunction with boiler and turbines (also listed under 840681 and 840682) to generate electricity in renewable energy plants. Must use these turbines and generators in combination to produce electricity from renewable fuels (e.g., biomass). Size is "exceeding 750 kVA." [Ca, J, NZ, K, Au, BD] Used in conjunction with boiler and turbines to generate electricity in renewable energy plants. Must use these turbines and generators in combination to produce electricity from renewable fuels (e.g., biomass). [US]
850231	850231	850231	Other electric generating sets: Wind-powered. [Ca, J, NZ, US, K, HK, Ru, M] Wind-powered electric generating sets [S] Wind-powered electric generating equipment [T]	Amorphous Transformers [BD]	Electricity generation from a renewable resource (Wind). [Ca, J, NZ, US, K, HK, BD] For wind turbines. Used to generate electricity from wind power - a form of renewable energy. [S] Some heat exchanges are specifically designed for use in relation to renewable energy uses such as geothermal energy. Electricity

			Electric generating sets and rotary converters: Wind-powered [BD] Wind-Powered Electric Generating Sets (85023100) [Ch]		generation from a renewable source (wind) [M] Used to produce electricity from wind energy. [Ch]
850239		850239	Electric generating sets and rotary converters: other. [Ca, J, NZ, K, Ru, BD] Generating sets, electric, nesoi. [US, Au] Biogas generator sets; Gas Generator (ex-85023900) [Ch]	Optional ex-outs may include: combined heat and power systems using biomass and/or biogas; Portable solar power generation equipment; solar power electric generating sets; Small hydro powered generating plant; Wave power generating plant; and Gas turbine sets for biomass plants [Ca, J, NZ, K] and for waste heat applications [Au] Small hydro, ocean, geothermal and biomass gas turbine generating sets. [US] For heat recovery systems [BD]	Combined heat and power systems produce usable power (usually electricity) and heat at the same time. Micro combined heat and power systems are very efficient for domestic use, particularly in places where reticulated natural gas and hot water central heating are the norm. 'Distributed generation' also minimises transmission losses through national grids, reducing the need to increase centralised generating capacity and transmission networks. [Ca, J, NZ, K, Au, BD] Electricity generation from renewable resources. [US] Used to produce electricity from methane. [Ch]
850300	850300	850300	Parts suitable for use solely or principally with the machines of heading 8501 or 8502. [Ca, J, NZ, CT, Au, Ru, Th, M, BD] Parts for 850231 and optional ex-out may include: 850239x. Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02. Parts of the generators and generating sets listed under HS 850231 (for renewable energy systems). Relevant parts include for instance nacelles and blades for wind turbines. [S] Parts of Wind-Powered Electric Generating Sets (85030030) [Ch]	Parts for 850231 and optional ex-out may include : 850239x.[Ca, J, NZ, K, CT, Au] Parts for 850161, 850162, 850163, 850164, 850211x, 850212x, 850213x, 850220x, 850231 and 850239x. [US] Combined cycle generator parts [BD]	Parts of the generators and generating sets listed under 848340 (for renewable energy systems). Relevant parts include for instance nacelles and blades for wind turbines. [Ca, J, NZ, K, M] See environmental benefit under 847989 [CT] Parts for aforementioned goods/ex-outs of headings 8501 and 8502. [US] Parts of the generators and generating sets listed under HS 850231 (for renewable energy systems). Relevant parts include for instance nacelles and blades for wind turbines. Renewable Energy [S] Parts and accessories for electricity generation from renewable resource. [BD]
		850490	Parts for electrical transformers, static converters and inductors	Parts for 850440x Not magnetic ferrite memory [R]	Used to convert DC current from renewable energy generating sets into conventional AC electricity.
851410	851410	851410	Resistance heated furnaces and ovens Industrial or laboratory electric furnaces and ovens (including those functioning by induction or dielectric loss); other industrial or laboratory equipment for the heat treatment of materials by induction or dielectric loss: resistance heated furnaces and ovens [M] Controlled Atmosphere Heat Treatment Furnace (85141010); Industrial / Lab Electric Resistance Heated Furnace (85141060) [Ch]	Optional ex-outs may include: waste incinerators and heat or catalytic incinerators. [Ca, J, NZ, K, CT, Au]	These products are used to destroy solid and hazardous wastes. Catalytic incinerators are designed for the destruction of pollutants (such as VOC) by heating polluted air and oxidation of organic components. These instruments are used to measure, record, analyse and assess environmental samples or environmental influences [Ch]
851420	851420	851420	Furnaces and ovens; functioning by induction or dielectric loss. Industry / Lab Electric Induction or Dielectric Fu (85142000) [Ch]	Optional ex-outs may include: waste incinerators and heat or catalytic incinerators. [Ca, J, NZ, K, CT, Au]	These products are used to destroy solid and hazardous wastes. Catalytic incinerators are designed for the destruction of pollutants (such as VOC) by heating polluted air and oxidation of organic components. These instruments are used to measure, record, analyse and assess environmental samples or environmental influences. [Ch]
851430	851430	851430	Other furnaces and ovens. [Ca, J, NZ, K, CT, Au, Ru, M] Industrial or laboratory electric furnaces and ovens, nesoi. [US]	Optional ex-outs may include: waste incinerators and heat or catalytic incinerators. [Ca, J, NZ, US, K, CT, Au]	Catalytic incinerators are designed for the destruction of pollutants (such as VOC) by heating polluted air and oxidation of organic components. [Ca, J, NZ, K, CT, Au]