

# Issues and Considerations for Negotiating a Sustainable Energy Trade Agreement

May 2012

ICTSD Global Platform on Climate Change, Trade and Sustainable Energy

Gary Hufbauer & Jisun Kim  
Peterson Institute & POSCO Research Institute



International Centre for Trade  
and Sustainable Development

A joint initiative with



# **Issues and Considerations for Negotiating a Sustainable Energy Trade Agreement**

May 2012

ICTSD Global Platform on Climate Change, Trade and Sustainable Energy

Gary Hufbauer & Jisun Kim  
Peterson Institute & POSCO Research Institute



International Centre for Trade  
and Sustainable Development

## Published by

International Centre for Trade and Sustainable Development (ICTSD)  
International Environment House 2  
7 Chemin de Balexert, 1219 Geneva, Switzerland  
Tel: +41 22 917 8492 Fax: +41 22 917 8093  
E-mail: [ictsd@ictsd.org](mailto:ictsd@ictsd.org) Internet: [www.ictsd.org](http://www.ictsd.org)

Publisher and Director:	Ricardo Meléndez-Ortiz
Programme Manager:	Ingrid Jegou
Programme Officer:	Joachim Monkelbaan

## Acknowledgments

This paper has been informed by research and dialogue on trade in environmental goods and services (EGS), specifically the symposium “A Sustainable Energy Trade Agreement” that was co-organized by the Peterson Institute for International Economics together with ICTSD and the Global Green Growth Institute on 7 November 2011 in Washington DC, USA.

The authors wish to acknowledge Ricardo Meléndez-Ortiz, Richard Samans, Ingrid Jegou, Mahesh Sugathan, Joachim Monkelbaan and all the participants of the above-mentioned SETA symposium.

This project has benefited from the generous support of the Ministry of Foreign Affairs of Denmark (DANIDA) and the Global Green Growth Institute. In addition, ICTSD is grateful for the support of its main donors including the UK Department for International Development (DFID), the Swedish International Development Cooperation Agency (SIDA); the Netherlands Directorate-General of Development Cooperation (DGIS); the Ministry of Foreign Affairs of Denmark, Danida; the Ministry for Foreign Affairs of Finland; the Ministry of Foreign Affairs of Norway; Australia's AusAID; the Inter American Development Bank (IADB); and Oxfam Novib.

For more information about ICTSD's Global Platform on Climate Change, Trade and Sustainable Energy, visit our website at <http://ictsd.org/programmes/climate-change/>

ICTSD welcomes feedback and comments on this document. These can be forwarded to Mahesh Sugathan at [smahesh@ictsd.ch](mailto:smahesh@ictsd.ch)

Citation: Hufbauer, Gary; Jisun Kim; (2012); *Issues and Considerations for Negotiating a Sustainable Energy Trade Agreement*; ICTSD Global Platform on Climate Change, Trade and Sustainable Energy; International Centre for Trade and Sustainable Development, Geneva, Switzerland, [www.ictsd.org](http://www.ictsd.org).

Copyright ICTSD, 2012. Readers are encouraged to quote and reproduce this material for educational, non-profit purposes, provided the source is acknowledged. This work is licensed under the Creative Commons Attribution-Non-commercial-No-Derivative Works 3.0 License. To view a copy of this license, visit <http://creativecommons.org/licenses/bync-nd/3.0/> or send a letter to Creative Commons, 171 Second Street, Suite 300, San Francisco, California, 94105, USA.

The views expressed in this publication are those of the author(s) and do not necessarily reflect the views of ICTSD or the funding institutions.

ISSN 2225-6679

**About the International Centre for Trade and Sustainable Development, [www.ictsd.org](http://www.ictsd.org)**

Founded in 1996, the International Centre for Trade and Sustainable Development (ICTSD) is an independent think-and-do-tank based in Geneva, Switzerland and with operations throughout the world, including out-posted staff in Brazil, Mexico, Costa Rica, Senegal, Canada, Russia, and China. By enabling stakeholders in trade policy through information, networking, dialogue, well-targeted research and capacity-building, ICTSD aims to influence the international trade system so that it advances the goal of sustainable development. ICTSD co-implements all of its programme through partners and a global network of hundreds of scholars, researchers, NGOs, policymakers and think-tanks around the world.

**About the Peterson Institute for International Economics, [www.piie.com](http://www.piie.com)**

The Peter G. Peterson Institute for International Economics is a private, nonprofit, nonpartisan research institution devoted to the study of international economic policy. Since 1981 the Institute has provided timely and objective analysis of, and concrete solutions to, a wide range of international economic problems. Its agenda emphasises global macroeconomic topics, international money and finance, trade and related social issues, energy and the environment, investment, and domestic adjustment policies. Current priority is attached to the global financial and economic crisis, globalisation (including its financial aspects) and the backlash against it, international trade imbalances and currency relationships, the creation of an international regime to address global warming and especially its trade dimension, the competitiveness of the United States and other major countries, reform of the international economic and financial architecture, sovereign wealth funds, and trade negotiations at the multilateral, regional, and bilateral levels. It celebrated its 25th anniversary in 2006 and adopted its new name at that time, having previously been the Institute for International Economics.

**About the Global Green Growth Institute, [www.gggi.org](http://www.gggi.org)**

The Global Green Growth Institute (GGGI) is a new kind of international organisation that has been established to accelerate “bottom up” (country- and business-led) progress on climate change and other environmental challenges within core economic policy and business strategies. The Institute provides an international platform for evidence based learning and policy innovation that helps to illuminate practical opportunities for progress on the twin imperatives of economic development and environmental sustainability, while deepening cooperation among developed and developing countries, the public and private sectors, and practitioners and scholars. Founded in June 2010 and established in Seoul, GGGI is committed to help developing and emerging countries pioneer a new “green growth” paradigm, and is scheduled to be converted into an international organisation in October 2012.



# TABLE OF CONTENTS

FOREWORD.....	iv
EXECUTIVE SUMMARY.....	1
INTRODUCTION.....	3
CHAPTER 1. Tariff Barriers.....	4
1.1 Possible SETA List.....	4
1.2 Core and Candidate Countries.....	5
1.3 Tariff Rates.....	5
1.4 Trade Flows.....	6
CHAPTER 2. Non-Tariff Barriers.....	8
2.1 Local Content Requirements.....	8
2.2 Subsidies.....	9
2.3 Standards.....	10
2.4 Investment.....	10
2.5 Services.....	11
CHAPTER 3. Negotiating Approaches.....	12
3.1 ITA or GPA Model?.....	12
3.2 Goods and Services Coverage.....	13
3.3 Country Coverage.....	13
3.4 Business Engagement.....	14
CONCLUSION.....	15
ENDNOTES.....	16
REFERENCES.....	20
APPENDIX A .....	22
APPENDIX B.....	158

# Foreword

Climate change is an unprecedented challenge facing humanity today. Given that fossil fuel-based energy use is the biggest contributor to anthropogenic greenhouse gas emissions, a rapid scale up and deployment of renewable or sustainable energy sources could significantly reduce the emissions responsible for global warming. A switch to cleaner and low-carbon transport fuels and technologies as well as greater energy-efficiency measures could also make a positive contribution toward achieving this goal. In addition, a scale-up of sustainable energy will also contribute to enhancing access to energy for millions of people in the developing world and also power rapid economic growth in emerging countries though increasingly sustainable means enabling them to move further away from carbon-intensive growth trajectories. It will also enhance energy-security by reducing the reliance of countries on fossil-fuel imports.

Efforts to scale up sustainable energy require sustainable energy generation costs to be as low as possible. Under market conditions, this is difficult given the still relatively high capital costs associated with renewable energy investments, the non-consideration of environmental and health externalities in fossil-fuel pricing and the enormous levels of subsidies that fossil-fuels still enjoy. While incentives such as feed-in tariffs and tax breaks help, lowering the costs of equipment and services used to produce sustainable power could also play a critical role in facilitating the scale up process.

Trade policy can contribute in this regard by lowering barriers to market access for sustainable energy goods and services. Often, however, trade and domestic sustainable energy policies could also be designed to restrict access to competitively priced goods and services for sustainable energy producers. This is because policymakers, while striving to lower the costs of sustainable energy production, also often seek to promote the domestic manufacturing of renewable energy equipment and the provision of services. In addition, the sustainable energy sector is also seen by many policymakers as a potential engine for job creation.

Balancing these objectives may be difficult, however, especially when policymakers still need to win local support for sustainable energy policies from their constituents. Local manufacturing and employment-driven motivations may also trigger protectionist policies for goods and services connected to energy efficiency or sustainable transport. The WTO is presently witnessing the first ever trade dispute over renewable energy feed-in tariffs and local content measures between Canada and Japan. Trade in sustainable energy goods can also be hampered by tariffs, subsidies and diverse or conflicting technical standards and lack of harmonisation or mutual recognition efforts.

It is clear that the urgency of addressing climate change will require, among other policy responses, a trade one as well. The current stalemate in the WTO Doha negotiations, along with the 'single undertaking' approach that requires trade-offs and links among a widely divergent set of issues, may also be working against effectively addressing critical and sensitive energy-related issues. In such a scenario, it may be worth looking at the possibility of a Sustainable Energy Trade Agreement (SETA) as a stand-alone initiative that could address these barriers and enable trade policy to advance climate change mitigation efforts and increase sustainable energy supply.

This agreement could be initially pursued as a plurilateral option, either within or outside the WTO framework. It could serve to catalyse trade in sustainable energy goods and services while seeking to address the needs and concerns of participating developing countries, many of which may not be in a position to immediately undertake ambitious liberalisation in sustainable energy goods and services. A SETA could also help clarify existing ambiguities in various trade-rules and agreements as they pertain to sustainable energy and also provide focalized governance through effective and operational provisions.

This paper elaborates on some of the major issues raised in an overview paper produced by ICTSD entitled “Fostering Low-Carbon Growth: The Case for a Sustainable Energy Trade Agreement.” It deals with some key issues and considerations that will require to be addressed in order to accomplish a SETA -focussing initially on tariffs as well as country-dynamics in terms of trade flows in a number of sustainable energy related goods. It also introduces a number of non-tariff measures that will need to be dealt with and finally addresses issues dealing with negotiating approaches and institutional frameworks. The authors put forward arguments as to why certain negotiating approaches and frameworks, in their opinion, may be more desirable for a SETA vis-à-vis others.

This paper was conceived and written by Gary Hufbauer from the Peterson Institute and Jisun Kim from the POSCO Research Institute and produced as part of a joint initiative of the International Centre for Trade and Sustainable Development (ICTSD)’s Global Platform on Climate Change, Trade and Sustainable Energy, the Global Green Growth Institute (GGGI) and the Peterson Institute for International Economics (PIIE).

The concept of the research has been informed by ICTSD policy dialogues, in particular a dialogue organised in Washington, DC in November 2011 by the PIIE with support of the Global Green Growth Institute (GGGI) and ICTSD.

We hope that you will find the paper to be a thought-provoking, stimulating, and informative piece of reading material and that it proves useful for your work.



Ricardo Meléndez-Ortiz  
Chief Executive, ICTSD



# Executive summary

In 2011, three institutes – the Global Green Growth Institute (GGGI), the International Center for Trade and Sustainable Development (ICTSD) and the Peterson Institute for International Economics (PIIE) – jointly launched the “Sustainable Energy Trade Initiative” (SETI). The objective of SETI is to facilitate trade in sustainable energy goods and services. This paper examines one possible avenue for realizing SETI goals, namely a Sustainable Energy Trade Agreement (SETA). In three parts, we provide an overview of the issues that need to be addressed to accomplish a SETA.

In the first part, we examine trade and tariff data for 39 narrowly-defined environmental goods (EGs), both for the world as a whole, and for selected “core” and “candidate” countries. In 2010, world imports of the 39 EGs accounted for about 1.7 percent of total imports of all products. While this does not seem like much, it reflects the fact that we start with only 39 tariff lines out of more than 5,000 tariff lines identified at the HS six-digit level. In our view, a short list will better serve as a launch pad, but once SETA is off the ground its product coverage should be enlarged.

In general, developing countries are more protective than developed countries, maintaining both higher bound and applied tariff rates. The mercantilist approach which dominates trade negotiations will very likely color trade negotiations in EGs, making it harder to bring developing countries within SETA. However, the specter of climate change brings new appreciation of the benefits from importing EGs and acquiring associated technology. Moreover a few developing countries, notably China and India, have surged as big exporters of certain EGs to world market. These features increase the prospect that both developed and developing countries will join the SETA talks. From the perspective of eliminating tariff barriers, China should have a strong commercial interest in joining SETA. However, since the SETA would eventually point to the elimination of local content requirements and harmonization of standards, China might take a wait-and-see attitude.

While tariff rates range widely among our and candidate countries, tariffs are not necessarily the biggest impediment to trade in SETA products. In fact, many EGs which already enjoy low tariff rates still face severe non-tariff barriers (NTBs), such as restrictive standards and local-content requirements (usually associated with government procurement or state-owned enterprises), and subsidies limited to national firms. We suggest that tariffs should be eliminated first, and other barriers should be phased out over a period of five or ten years.

In the second part of the paper, we survey a number of non-tariff measures by way of introduction to the deeper analysis in other SETI papers. In recent years, countries have extended various forms of public support to promote renewable energy. From an environmental perspective, these support measures are welcome -- creating new industries and jobs, facilitating technological innovation, and reducing carbon emissions. The big downside is that such programs inevitably raise the cost of installing a given amount of renewable energy. Moreover, such programs deviate from the national treatment principle that undergirds the world system of trade and investment. Non-tariff barriers must be addressed and several of them should be phased out. Our preliminary suggestion as to the priority order of NTBs is: local content requirements (LCRs), services, investment, subsidies and standards.

Among the most troublesome barriers are local content requirements (LCRs). LCRs mandate the use of locally produced components or services in government-sponsored projects; they became rather popular in the wake of the global financial crisis (2008-2009). LCRs are especially prevalent in large-scale renewable energy projects, both at national and sub-national levels of government. Their effectiveness in boosting jobs can be questioned; further, LCRs clearly reduce competition by excluding foreign suppliers, thereby raising the cost of renewable energy.



While huge renewable energy subsidies (often linked to LCRs) clearly distort markets, the subsidies may be essential for renewable energy to compete with coal, oil and natural gas. Since the dollar volume of fossil fuel subsidies is at least five times the subsidies going to renewable energy, and since few renewable energy sources can yet compete with fossil fuels on the basis of price per megawatt, it seems unreasonable to limit renewable energy subsidies as part of a SETA accord. As a political matter, it's probably impractical as well to insist that national subsidies be extended to foreign firms operating in the SETA space. Both from environmental and economic standpoints, curtailing fossil fuel subsidies is the most important step at this juncture.

Mandatory technical regulations and voluntary standards achieve both public and commercial objectives. Regulations and standards in the energy space include efficiency standards, labeling requirements, and private systems for identifying green products. These measures are instituted at the federal, state, city or corporate level and play a key role in promoting economic integration, averting negative externalities, and fostering innovation. Yet, at the same time, regulations and standards can discriminate against foreign firms, limit competition, and act as trade barriers. Since standards are often voluntary as a legal matter, but mandatory as a practical matter, they are hard to harmonize between countries. SETA members may consider adopting features of a mutual recognition agreement (MRA) for assessing national conformity to agreed standards. Also, the SETA might require its members to consult with each other in confidence before publishing the pre-announcement of a new standard.

Non-tariff measures, such as subsidies confined to national firms and local content requirements, have retarded new investment flows. Some countries have gone further and adopted measures that directly discriminate against foreign-controlled firms, exemplified by capital limits or ownership requirements. The SETA should include a chapter that phases out capital and ownership requirements, and other measures that directly discriminate against foreign investors.

With respect to services, our recommendation is that, within the SETA, the members should focus on a limited list of services principally applied to renewable energy. To this end, the members could adopt a project approach, focusing on services directly connected with the installation, operation and maintenance of renewable energy projects. For these services, the SETA should call for free trade and investment (Modes 1 and 3), phased into application over a reasonable period of time.

The third and last part of the paper summarizes key issues relating to negotiating approaches and the institutional framework. The Peterson Institute has examined negotiating approaches in companion papers. Their application to SETA can be summarized with four precepts:

- The plausible model is the WTO Government Procurement Agreement (GPA), not the Information Technology Agreement (ITA) – in other words, benefits extended on a conditional MFN basis, but the agreement open to all WTO members that subscribe to the obligations.
- If acceptable to three-fourths of WTO members, SETA should be part of the WTO framework. The benefit to SETA members is access to the WTO dispute settlement mechanism; the benefit to non-members is the possibility of accession at a later date.
- The agreement should stipulate that SETA coverage as to products and countries can be extended by a super-majority of members; unanimity should not be required, but dissenting countries should be able to opt out, using a procedure patterned after GATT Article 35.
- Support from the business community is vital. Leading firms and associations should be deeply involved at every stage of SETA negotiations.

# Introduction

In 2001, recognizing the importance of better market access for environmental goods and services (EGS), the original Doha Ministerial Declaration called for negotiations on “the reduction or, as appropriate, elimination of tariff and non-tariff barriers to environmental goods and services.”<sup>1</sup> Over the past decade, WTO members have devoted considerable effort to the mandate, but like much else in the Doha Declaration, results are elusive.

One major difficulty is failure to agree on a single EGS list. Many WTO members seek to maximize market access abroad for their EGS exports, while minimizing market access at home for their EGS imports – in other words, the mercantilist motives that underlie most trade negotiations bloom when it comes to EGS talks.<sup>2</sup>

A second major difficulty (which interacts with the first) is that many WTO members have little interest in the EGS agenda. Whatever the approach, these members protect EGS products in their home markets and have nothing to offer that can compete on export markets.

That said, in the WTO EGS negotiations, better progress has been made on environmental services than on environmental goods. Negotiations on environmental services have been conducted in the context of the General Agreement on Trade in Services. Environmental services identified by the WTO include sewage services, refuse disposal, sanitation and similar services, reducing vehicle emissions, noise abatement services, nature and landscape protection services and “other” environmental services. According to the WTO, more than 40 WTO members, at all levels of development, have undertaken specific commitments on these environmental services. However, engineering, maintenance and operational services connected with the production of renewable energy are not the object of specific commitments.

To minimize disagreement over the appropriate content of the EGS schedule, and to narrow

the talks to those with a strong interest in liberalization, some countries have explored the option of reaching an EGS agreement on a bilateral, plurilateral or regional basis. For example, the United States has been talking with Canada, the European Union and Australia about eliminating tariffs on green technologies such as solar and wind power to spur their use. Similar discussions on improving EGS market access are underway within APEC and the Group of 20 (G-20).<sup>3</sup> A Global Agenda Council formed by the World Economic Forum proposed a Sustainable Energy Free Trade Area (SEFTA) aimed at removing all subsidies on fossil fuels, and eliminating tariffs and taxes on clean energy products (World Economic Forum 2010).

In 2011, the three institutes – the Global Green Growth Institute (GGGI), the International Center for Trade and Sustainable Development (ICTSD) and the Peterson Institute for International Economics (PIIE), launched a joint initiative called “Sustainable Energy Trade Initiative” (SETI), advocating a framework to facilitate trade in sustainable energy goods and services. In this paper, we examine one possible avenue for realizing the SETI goals, namely a Sustainable Energy Trade Agreement (SETA). Our paper is among those commissioned by the cooperating institutes to stimulate discussion on the possible roads to freer trade in renewable energy goods and services.

In three parts, we provide a broad overview of the potential issues that need to be addressed in the SETI discussions. In the first part, we focus on tariff barriers – the tariff rates on sustainable energy products in selected countries and the trade flows between those countries. In the second part of the paper, we survey a number of non-tariff measures by way of introduction to the deeper analysis in other SETI papers. In the third and last part of the paper, we examine key issues relating to negotiating approaches and the institutional framework.

# Chapter 1

## Tariff Barriers

While a SETA would cover both tariff and non-tariff barriers, negotiations in the first instance would likely address tariffs. Tariffs are often not the highest barriers to trade in SETA products, but they are easily quantified and less controversial than non-tariff barriers – especially local-content requirements, subsidies and standards. In our view, tariffs should be eliminated first, and other barriers should be phased out over a period of five or ten years.

### 1.1 Possible SETA List

As with EGS negotiations in the WTO, the prospect of a bilateral, plurilateral or regional pact that would liberalize trade in environmental goods (EGs) alone has been thwarted by the difficult task of defining EGs.<sup>4</sup> Since there is no internationally agreed definition of EGs, countries have proposed their own lists. These lists were gathered in a WTO report for the Committee on Trade and Environment Special Session (CTESS) which lists the universe of EGs of interest to member countries (TN/TE/20, April 21, 2011). After matching EGs with tariff lines (based on the HS 2002 classification at the six-digit level), the WTO compilation covers 408 tariff lines, and each tariff line is accompanied by a detailed description and related categories under six broad headings – air pollution control, renewable energy, waste management and water treatment, environmental technologies, carbon capture and storage, and others.<sup>5</sup> So far, nothing has come of WTO negotiations over this ambitious EGs list.

In our view, a short list would better serve as a launching pad for plurilateral negotiations to establish a Sustainable Energy Trade Agreement. A longer list would create greater room for disagreement, for example over dual-use products, and would stimulate mercantilistic instincts to a larger extent. Accordingly, for the purposes of this paper, we have drawn up our own short list which covers just 39 EGs tariff lines at the HS six-

digit level (see table 1). Our list comprises 32 EGs found under the sole category of ‘renewable energy’ in the WTO compilation, plus six EGs based on our judgment that are described both as ‘renewable energy’ and another category such as ‘environmental technologies’, plus un-denatured ethyl alcohol (HS 220710), often called ‘ethanol’, and widely used for fuel.

It is controversial whether ethanol and biofuels are good for the environment, but we included both ethanol and biodiesel in our short list since their production and use has grown rapidly with considerable political support and thus financial incentives. The United States and the European Union, among others, provide substantial incentives to national ethanol and biofuel production, including subsidies, tax incentives, and consumption mandates.<sup>7</sup> Some developing countries see ethanol and biofuel as promising exports; hence commercial balance argues for their inclusion in a plurilateral negotiation.<sup>7</sup>

Most EGs in our list are lumped in codes that include unrelated products. For example, solar photovoltaic (PV) panels are included in part of a large subheading (HS 854140), which includes semiconductor devices and light emitting diodes (LEDs). While some countries want liberalization to be confined to HS six-digit categories that have a single end-use, UNCTAD (2011) found that out of some 440 entries of environmental goods (at the HS six-digit level) compiled by the WTO, only a half a dozen are purely and singularly used for environmental purposes.<sup>8</sup> Multiple end-uses are a common feature of HS tariff codes.

Before we delve into trade figures of our SETA list, it is worth noting that the APEC leaders at the 2012 Summit agreed on a list of 54 EGs for which applied tariff rates will be cut to five percent or less by the end of 2015. While this is not a binding commitment among the 21 APEC economies, it is meaningful

in that major economies for the first time agreed on a list of EGs for tariff cuts. The list includes a number of renewable energy and clean technologies such as solar panels, and gas and wind turbines, wastewater treatment technologies, air pollution control technologies, and environmental monitoring and assessment equipment.<sup>9</sup> Appendix table 1 shows export values of APEC EGs to APEC countries and import values of APEC EGs from the world. In 2010, APEC national exports of 54 EGs to the APEC region were about \$115 billion, accounting for about 3 percent of total merchandise exports of all products to the region. The top three exporters of the 54 APEC EGs are Japan, the United States and China. The APEC imports of 54 EGs from the world were about \$195 bill, accounting for about 3 percent of imports of APEC EGs from the world. APEC accounts for about 60 percent of world imports of these products.

Interestingly, there is little overlap between our SETA list which contains 39 products and the APEC list which contains 54 products – only 7 products are in common between the two lists (see Appendix table 2).<sup>10</sup> Careful examination may be required to explain the differences between the lists, but our speculation is that the difference mainly reflects the fact that our list was mainly drawn from EGs under the category of “renewable energy” in the WTO list which originally covers 408 tariff lines categorized under six headings. By contrast, the APEC list covers products under broader categories, covering not renewable energy technologies but also air pollution control technologies, environmental monitoring equipment, etc. A comparison between our SETA list and the World Bank list of 43 EGs which are associated with clean energy technologies (such as solar, wind, energy efficient lighting and clean coal technologies) seems to confirm this speculation, since 20 products are found in common between the two (see Appendix table 2).<sup>11</sup>

Returning to our own analysis, table 1 shows world import values, the trade-weighted average world tariff rates, and the binding coverage for each of the 39 EGs in our short list. In 2010, the world imports of all 39 EGs

were about \$225 billion or roughly 1.7 percent of total imports of all products. Among 39 EGs, photo-voltaic (PV) cells and modules (HS854140) were by far the largest, accounting for about 29 percent of world imports of all 39 EGs. With respect to tariff rates, while MFN bound rates, MFN applied rates and effective applied rates range widely,<sup>12</sup> trade-weighted average tariff rates for all 39 EGs are in line with average tariffs for all industrial products.

## 1.2 Core and Candidate Countries

For this paper we have identified 10 “core countries” that seem highly likely to join SETA negotiations if talks are launched: NAFTA, EU, Chile, Colombia, Peru, Australia, New Zealand, Singapore, Japan, and Korea. We have also identified 6 “candidate countries” that hold great commercial and environmental interest for the core countries: Brazil, India, China, Indonesia, Turkey, and South Africa. However, several candidate countries protect the 39 products to a much higher extent than the core countries, and accordingly these candidates may have less interest in the SETA concept.<sup>13</sup> Average bound tariff rates for all 39 EGs in Brazil, India, Indonesia, Turkey, and South Africa are high, but China is a notable exception. Possibly China would be the first candidate country to join the SETA.

These designations of core and candidate countries are, of course, merely illustrative. Once a SETA is launched, its sponsors would surely hope for wide participation by WTO members. If obligations are phased in over time for developing countries, many might accede to the agreement.

## 1.3 Tariff Rates

Returning to the nuts and bolts, Table 2 presents trade-weighted averages for bound and applied tariff rates for each of the 16 countries in our “core” and “candidate” groups. On average, most developing countries -- whether core countries or candidate countries -- maintain high bound and applied tariff rates. The rates range between 14 percent (Turkey) and 37 percent (Colombia) for MFN bound rates and between almost zero percent (Turkey) and 11 percent (Brazil)

for effective applied rates. By implication, there is also a good deal of “water” in these tariff structures.<sup>14</sup> China is an exception. It maintains low bound and applied tariff rates. Likewise tariff rates are already very low in most developed countries such as NAFTA, EU 27, Australia, Singapore, and Japan.

Several EGs in our list already have low tariffs. For example, applied tariff rates on solar PV (HS 854140) are very low in most of our selected countries -- almost zero percent in many cases. Likewise, applied tariff rates on wind turbines (HS850231) are below or around 5 percent in most of cases and around 10 percent in a few cases such as Colombia, Korea, China, and India. There is an upside and a downside to this situation. The upside is that, with respect to low-tariff products, negotiating the SETA should not be difficult. The downside is that the gains, in terms of increased trade, from eliminating the residual tariffs would be limited. “No pain, no gain” is a familiar saying in trade policy. On the other hand, many low-tariff EGs face various non-tariff barriers (NTBs) especially local-content requirements, licenses, standards, that often have quite distortive impacts. Our hope is that, while tariff elimination would be the first deliverable, NTBs would be removed within a few years.

Looking at four basic clean energy technologies, namely solar, clean coal and efficient lighting, in 18 top greenhouse gas (GHG) emitting developing countries, the World Bank (2007b) estimated that the removal of tariffs for those technologies would result in trade gains of up to 7 percent and the removal of both tariffs and NTBs could boost trade by as much as 13 percent. These calculations suggest the promise of a SETA pact.

It is worth noting that many countries maintain high tariff rates for ethanol (HS 220710) -- in some cases more than 100 percent.<sup>15</sup> Developing countries generally favor trade liberalization in ethanol and biofuels as they see the export potential. To make the SETA enticing to a wider group of members, we think ethanol and biofuels should be on the list of covered products.

## 1.4 Trade Flows

In trade negotiations, there is no getting away from calculations of commercial advantage where, to put it crudely, exports are good and imports are bad. For that reason, we have compiled Table 3, which shows trade values (imports and exports) for each of the 39 EGs between each country and the other core and candidate countries in our list.

For NAFTA, the major partners for both imports and exports in all 39 EGs are EU 27, China and Japan. NAFTA is a net importer of all 39 EGs with respect to its top three trading partners. The European Union's top three import partners for all 39 EGs are China, NAFTA, and Japan. And, the main import commodity is PV cells and modules (HS 854140), accounting for about 70 percent of total imports in all 39 EGs, and most of the imports come from China. For exports, the EU's top three partners are NAFTA, China, and Turkey. Its main export commodities are control boards (HS 853710), gears (HS 848340) and biodiesel (HS 382490). For China, the top three import partners are Japan, EU 27 and NAFTA and the main import commodities are biodiesel (HS382490), recovered paper (HS 470710) and PV cells and modules (HS 854140). China's top three export destinations are EU 27, NAFTA and Japan and China's main export commodity is PV cells and modules (HS 854140). China is also the top exporter of wind turbine towers, static converters, solar batteries for energy storage in off-grid photo voltaic systems and other items.

Trade negotiators may enjoy delving into the details of Table 3. An important conclusion we derive from our summary evaluation is that, from the perspective of eliminating tariff barriers, China should have a strong commercial interest in joining the SETA talks. However, since the SETA would eventually point to the elimination of local content requirements and harmonization of standards, China might take a wait-and-see attitude.

Table 4 summarizes total trade -- imports and exports -- of all 39 EGs between each country and the other core and candidate countries.



Total imports of all 39 EGs from all the core and candidate countries were \$102 billion in 2010, without counting intra-NAFTA imports and intra-European Union imports. Taking into account imports within the NAFTA pact and within the European Union, total imports of all 39 EGs between all the core and candidate countries were about \$176 billion.<sup>16</sup> Calculated this way, SETA trade accounts for about 78 percent of world imports of all 39 EGs. In other words, if both the core and candidate countries sign up, the SETA coverage would amount to a “critical mass”; however, if only the core countries are present at the launch, the trade coverage would be “substantial” but not up to the “critical mass” standard.

The top three importing countries for all 39 EGs are EU 27, China, and NAFTA, followed by Korea and Japan. The top three exporting

countries are China, EU27, and Japan, followed by NAFTA and Korea. Among all the countries, only China and Japan are net exporters of all 39 EGs; and all others are net importers. Total exports of all 39 EGs between the core countries themselves (not counting internal NAFTA and EU trade) were \$36 billion; and total exports from the core countries to the candidate countries were \$30 billion. Candidate exports to the core countries were \$34 billion, while candidate exports to other candidate countries only amounted to \$3 billion.

From this perspective, the candidate countries have a commercial incentive to join SETA, merely to ensure access to the core markets. While trade in sustainable energy products between candidate countries will certainly expand, the commercial promise of these flows is the future, not the present.

# Chapter 2

## Non-Tariff Barriers

Despite commitments by world leaders to resist protectionism, the use of trade restrictive measures continues to flourish.<sup>17</sup> A wide range of government supports have favored renewable energy, giving credence to the idea “green protectionism” and a “green race.” Trade frictions between the United States and China are particularly worrisome. In the 2012 State of the Union address, President Obama praised his administration for bringing trade cases against China at nearly twice the rate of the Bush Administration, and went on to announce the creation of a Trade Enforcement Unit to investigate unfair practices (with attention to China foremost).<sup>18</sup> Solar and wind energy are at the forefront of bilateral trade friction, and a public backlash against US measures is already gathering steam in China.

In recent years, countries have extended various forms of public support to promote renewable energy. According to REN21 (2011), at least 118 countries had some type of renewable support policy at the national level in early 2011; in addition, many sub-national governments (cities, states, provinces) are pursuing their own renewable policies. From an environmental perspective, these support measures are welcome -- creating new industries and jobs, facilitating technological innovation, and reducing carbon emissions. In fact, global demand for renewable energy heavily depends on governmental support in various forms, including local content requirements, subsidies and standards. The big downside is that such programs inevitably raise the cost of deploying a given amount of renewable energy as they deviate from national treatment principles that undergird the world system of trade and investment. In this section, we discuss non-tariff measures that play a key role in boosting renewable energy but also act as barriers to efficient trade and investment.

### 2.1 Local Content Requirements

Among the most troublesome barriers are local content requirements. LCRs mandate the use of locally produced components or services in government-sponsored projects; they became rather popular in the wake of the global financial crisis (2008-2009). The common goal is to foster local jobs.

LCRs are especially prevalent in large-scale renewable energy projects, both at national and sub-national levels of government. China is one country that has used LCRs as an important policy tool. LCRs for wind farm projects have been in place for many years. During the Ninth Five-Year Plan (1996- 2000), policy requiring a minimum of 40 percent local content for wind turbine equipment was approved by the National Development and Reform Commission (NDRC). The figure was increased to 70 percent in 2005. The NDRC revoked 70 percent mandate LCR in 2009, but domestic content remains a factor in awarding wind farm concessions. Kirkegaard *et al* (2009) argue that the 70 percent LCR policy, coupled with China's large market, led many of the non-Chinese turbine firms to establish production facilities in China.

Despite the irreversible outcome of Chinese industrial policy, the United States raised a dispute over Chinese wind power subsidies which are contingent on LCRs. That case was settled through consultations in 2011,<sup>19</sup> but Chinese subsidies for other renewable energy remain on the agenda.

Another example is Ontario's feed-in-tariff (FIT) program. Canada's largest province enacted its Green Energy and Green Economy Act in May 2009. Among other features, the act enabled a feed-in-tariff program which included a domestic content requirement.

In September 2010, Japan requested consultations with Canada, claiming that the measures are inconsistent with WTO rules.<sup>20</sup> In August 2011, the European Union requested consultations with Canada for the same FIT program; Japan and the United States joined those consultations as well.<sup>21</sup>

In still another LCR case, Renault received a € 100 million state loan for electric vehicles in February 2010. The *quid pro quo* was Renault's pledge of best efforts to raise the local content of electric car development up to 70 percent and to maintain its employment within France.<sup>22</sup>

Table 5 lists several LCRs currently in place. Many countries are conditioning their support for feed-in tariffs on local content requirements. While their effectiveness in boosting jobs can be questioned, LCRs clearly reduce competition by excluding foreign suppliers, thereby raising the cost of renewable energy.

## 2.2 Subsidies

Responding to petitions filed by US solar companies, which have lost a large share of the market to Chinese solar panels, the International Trade Administration (ITA) in the Department of Commerce, and the independent International Trade Commission (ITC) initiated an investigation to determine whether China has been subsidizing its solar panel industry, thereby injuring US solar firms.<sup>23</sup> In early 2012, preliminary rulings issued by the ITA and ITC favored the US petitioners. This case may well be a harbinger of trade disputes ahead in the renewable energy space.

To be sure, the overall level of public support for renewable energy is coming under short-term pressure on account of budget woes in Europe and the United States. But the International Energy Agency (IEA) projects that the share of non-hydro renewables in power generation will increase from 3 percent in 2009 to 15 percent in 2035, and that this gain, if it happens, will be underpinned by public subsidies. According to the IEA (2011), global renewable energy

subsidies were about \$66 billion in 2010, and will reach almost \$250 billion in 2035.<sup>24</sup> Going forward, these are large numbers.

Yet, while huge renewable energy subsidies linked to LCRs clearly distort markets, the subsidies may be critical for renewable energy to compete with coal, oil and natural gas. Many renewable energy technologies are not expected to achieve "grid parity" -- meaning the point at which alternative means of generating electricity becomes not more expensive than existing means of generating energy -- until 2020. While the subsidy cost per unit of output is expected to decline, the IEA (2011) forecasts that most renewable-energy sources will need continued support for several decades to compete in electricity markets. Besides, governments continue to subsidize fossil fuel use on a vast scale, contradicting sensible economics and environmental goals. In 2010, world fossil fuel subsidies amounted to \$409 billion. Without reform, spending on fossil fuel consumption subsidies is projected to reach \$660 billion in 2020, some 0.7 percent of global GDP (IEA 2011).

Since fossil fuel subsidies are about five to six times the subsidies going to renewable energy, and since few renewable energy sources are yet able to compete with fossil fuels, it seems unreasonable to limit renewable energy subsidies as part of a SETA accord. As a political matter, it's probably impractical as well to insist that national subsidies be extended to foreign firms based in the SETA area. Rather, SETA members should seek agreement on phasing out LCRs that are linked to renewable energy subsidies.

That said, some reduction of renewable energy subsidies may be in the stars, independently of a future SETA. At the symposium held in Washington DC in November 2011, Amy Porges, an international trade lawyer, pointed out that Brazil is now a net importer of ethanol from the United States on account of high sugarcane prices. Meanwhile, many US politicians are fed up with ethanol subsidies. For both reasons, 2013 could be a "golden

moment” to forge a SETA deal that covered ethanol tariffs, phased out ethanol subsidies, and brought Brazil on board. In the same spirit, some countries, including France and Germany, have curtailed their renewable subsidies in response to budget realities and price comparisons. As for solar energy, a main reason is that solar panels produced by China and Taiwan are so cheap that domestic firms cannot compete, whatever the subsidy. These examples suggest that some SETA members are, of their own accord, traveling a downward path with respect to renewable energy subsidies.

Yet we think that SETA disciplines on renewable energy subsidies are not a promising topic in the near term (ethanol may be an exception). Both from environmental and economic standpoints, curtailing fossil fuel subsidies is more important and probably more practical. The leaders of major economies have repeatedly made commitments to reform fossil fuel subsidies, but so far they have little to show for all their words. Perhaps the SETA pact could begin the process of meaningful discipline.

## 2.3 Standards

Mandatory technical regulations and voluntary standards achieve both public and commercial objectives. Regulations and standards in the energy space include efficiency standards, labeling requirements, and private systems for identifying green products. These measures are instituted at the federal, state, city or corporate level and play a key role in promoting economic integration, averting negative externalities, and fostering innovation. Yet at the same time regulations and standards can discriminate against foreign firms, limit competition, and act as trade barriers.

Recognizing the right of WTO members to protect human health, safety and the environment, the Agreement on Technical Barriers to Trade (TBT agreement) asks WTO members to ensure that regulations and standards serve legitimate objectives and do not create unnecessary obstacles to trade. The TBT encourages governments to apply international standards where they exist. In this regard, renewable energy industries operate

under international standards promulgated by the International Electrotechnical Commission (IEC) and the International Organization for Standardization (ISO).

The number of measures notified as “specific trade concerns” to the TBT committee has increased and many of them relate to renewable energy. For example, in 2010, the United States raised its concern to the TBT committee over a Korean standard for thin-film solar panels (KS 61646:2007 thin film terrestrial photovoltaic modules), arguing that the Korean standard locked US solar panel producers out of the Korean market. While the Korean standard incorporates much of the IEC 61646 (the international standard that applies to all types of thin film solar panels), the Korean standard only applies to one type of thin film solar panel -- amorphous silicon (A-Si) type. The Korean standard does not require mandatory compliance, but solar panels must be certified by the Korea Energy Management Corporation (KEMCO) in order to be sold in the Korean market. And the KEMCO only certifies one type of thin film solar panels based on that standard.<sup>25</sup> The net result is to exclude other thin film solar panels that would meet the specifications of IEC 61646.

Since standards are often voluntary as a legal matter, but mandatory as a practical matter, they are hard to harmonize between countries. In one paper discussing this problem in the context of liberalizing trade in environmental goods (EGs), Vikhlywaev (2009) suggested that members of a trade group could consider a “smorgasbord” approach along the lines of a current trend in the ISO: declare certain national, regional or international standards as equivalent rather than trying to negotiate a single standard. The SETA could adopt this approach. Also, SETA members may consider adopting features of a mutual recognition agreement (MRA) for assessing national conformity to agreed standards. Finally, the SETA might require its members to consult with each other in confidence before publishing the pre-announcement of a new standard.

## 2.4 Investment

According to Bloomberg, despite the sluggish global economy, total global investment in

clean energy has rapidly increased over the past few years, reaching a new record of \$260 billion in 2011 – up 5 percent above 2010 levels and almost five times the total of \$54 billion in 2004.<sup>26</sup> In 2011, the United States ranked top, about \$60 billion in clean energy investment, and China was the second with about \$47 billion.

Despite this rapid increase, non-tariff measures such as subsidies confined to national firms and local content requirements have retarded new investment flows. Some countries have adopted measures that directly discriminate against foreign-controlled firms, such as capital or ownership requirements. For example, the registered capital requirement for a foreign or Sino-foreign wind power project is a minimum of 33 percent of total assets, while the requirement for Chinese companies is 10 percent (NFTC 2010). Moreover, foreign companies operating in China are required to enter into a joint venture in which Chinese partners control 51 percent ownership.

In light of this background, the SETA should include a chapter that phases out capital and ownership requirements, and other measures that directly discriminate against foreign investors.

## 2.5 Services

Another Policy Brief authored by the Peterson Institute, “Framework for the International Services Agreement” explores the details of a possible post-Doha agreement designed to

achieve significant liberalization of services trade and investment by self-selected WTO members.<sup>27</sup> Here we need only sketch the outlines as they apply to renewable energy. In general, trade in services occurs through four modes of supply (enumerated in the General Agreement on Trade in Services (GATS)): 1) cross-border trade; 2) consumption abroad; 3) commercial presence; and 4) presence of natural persons.<sup>28</sup> Modes 1 and 3 are most relevant for the SETA.

If the SETA is concluded before the International Services Agreement (ISA), a major issue will be dual use energy services, similar to the problem of dual use energy goods (goods with both renewable and non-renewable applications). The UN Central Product Classification (CPC) list, which serves as the basis for the WTO Services Classification list, is not specific enough to identify either environmental or energy services. To address this concern, the European Union, Canada and Colombia have put forward their own proposals (ICTSD 2011).

Our recommendation is that, within the SETA arrangement, the members should focus on a limited list of services principally applied to renewable energy. To this end, the members could adopt a project approach, focusing on services directly connected with the installation, operation and maintenance of renewable energy projects. For these services, the SETA should call for free trade and investment (Modes 1 and 3), phased over a reasonable period of time.



# Chapter 3

## Negotiating Approaches

A related paper authored by the Peterson Institute, “Will the WTO Have a Bright Future?” pictures a post-Doha world in which WTO negotiations center on a series of plurilateral agreements, negotiated by self-selected WTO members and applied on a conditional MFN basis.<sup>29</sup> In this Policy Brief, we sketch the application of that post-Doha scenario to a SETA accord, potentially one of the plurilateral agreements.

### 3.1 ITA or GPA Model?

The Ministerial Declaration on trade in Information Technology (IT) Products, commonly described as Information Technology Agreement (ITA), is often cited as a model for the SETA. The ITA calls for free trade in covered products. As the first post-Uruguay Round agreement, the ITA was signed at the WTO Ministerial Conference held in Singapore, December 1996, and took effect in March 1997.<sup>30</sup> Its membership has steadily increased from the 29 original signatories in 1996 to 73 members in 2010, representing about 97 percent of world trade in information technology products.<sup>31</sup> From the get-go, the ITA was applied on an unconditional MFN basis -- whether or not signatories, all WTO countries could benefit from free access to the signatory markets.

While highly successful, it is questionable whether the ITA could serve as a model for the SETA. Fliess (2009) spelled out the differences between the context in which the ITA was negotiated, and the context of an agreement on environmental goods and services (EGS). Favorable conditions for the ITA -- such as strong industry support, high market maturity level, critical role in the broader economy, and developing countries as major players -- are weak for EGS. Fliess makes a strong argument, even though China and India are already key players in renewable markets and leading global companies have back the SETA concept. Realistically, it is highly unlikely that SETA can be launched with

a coverage extending to 90 percent of global trade. Without coverage near that level, the “free rider” problem becomes an insuperable political obstacle to a SETA that permits unconditional MFN access to its market opening provisions.

The main alternative to the ITA model for SETA is the model established by the Government Procurement Agreement (GPA). The GPA was part of the Uruguay Round accords that established the WTO, signed at Marrakesh in April 1994, and entered into force in January 1995. The GPA was concluded as one of the plurilateral agreements covered by Annex 4 of the Marrakesh Agreement establishing the WTO. The GPA establishes a framework of rights and obligations among the signatories with respect to their national laws, regulations, procedures and practices in the area of government procurement. The GPA, unlike the ITA, is based on the conditional MFN principal: its basic thrust is to open selected portions of government procurement markets only to GPA signatories.

Business firms with export interests in the SETA space will strongly prefer the GPA model to the ITA model since benefits are confined to member countries. Otherwise, the SETA will have little or no attraction for the founders. However, to be an agreement within the WTO, on account of its conditional MFN application, the SETA will require a waiver under Article IX (3) of the Marrakesh Agreement (akin to waiver for the GPA).<sup>32</sup> As Hufbauer and Schott (2012) argue, similar waivers would be required for other plurilateral agreements in the post-Doha Round trading world.

If a waiver for SETA proves impossible, then like-minded governments could negotiate SETA outside the WTO framework. But in that event, the agreement would not enjoy access to the WTO dispute settlement mechanism. That’s an important shortcoming, since enforcement of the agreement between its members will be critical for SETA’s long-term viability.

The recent case brought against Canada by Japan illustrates the sort of questions that will inevitably arise. In September 2010, Japan requested consultations with Canada with respect to the domestic content requirements in Canada's feed-in-tariff (FIT) program for renewable energy, claiming that the measures discriminate foreign producers. The consultations were inconclusive and, upon Japan's request, a WTO panel was established in October 2011.<sup>33</sup> Eventually the panel and the Appellate Body will resolve the dispute. Without this mechanism, the disagreement could go on for years, and the same indeterminate application could await provisions in if the pact is established as a free-standing agreement outside the WTO framework.

### 3.2 Goods and Services Coverage

In grappling with the definition of environmental goods, the EGS talks in the Doha Round considered four approaches: 1) the list approach; 2) the request-and-offer approach; 3) the project approach; and 4) the integrated approach.

The list approach seeks an agreed list of environmental goods and service for special treatment, such as tariff reductions.<sup>34</sup> Recognizing the difficulty of agreeing on a single list, some countries suggested a request-and-offer approach which aims to provide special treatment to specific goods and services in response to requests and offers between individual WTO members. Another idea is the project approach -- originally proposed by India -- which gives special treatment to goods and services associated with a specific environmental project, approved by a designated national authority. This approach was driven by concerns over the dual use of many environmental products enumerated in the Harmonized System (HS) codes.

Due to the limitations inherent in each approach, some countries have proposed hybrid approaches. For example, Argentina proposed an integrated approach which resembles the project approach with

multilaterally agreed pre-identified categories of goods used in the approved projects. Some countries suggested to link to clean development mechanism (CDM) projects. Also, some countries, notably Singapore, Australia, Hong Kong, and China, have proposed a core list of single-use environmental goods supplement by self-selected lists and request-and offer-procedures (UNCTAD 2011).

It may be less difficult to draw up a list of sustainable energy goods and services covered by SETA than to agree on EGS coverage, due to its relatively narrow scope. However, issues raised in the EGS negotiations would still need to be addressed in the SETA talks. For example, the current classification systems are not specific enough to isolate sustainable energy goods and services; hence, dual-use certainly remains an issue.

To avoid a significant dual-use problem, SETA member countries could adopt the integrated approach that evolved from EGS negotiations. Following this model, the SETA negotiations could start with an agreed short list of single-use sustainable energy products and services. Then, the members could add products to be liberalized based both on the request-and-offer approach and the project approach.

### 3.3 Country Coverage

For success of the SETA, the major players in renewable energy markets should participate. In the earlier section on Tariff Barriers, we listed 10 core countries -- NAFTA, EU, Chile, Colombia, Peru, Australia, New Zealand, Singapore, Japan and Korea -- that seem highly likely to join SETA negotiations. We also listed 6 candidate countries -- Brazil, India, China, Indonesia, Turkey and South Africa -- that hold great commercial and environmental interest. In practical terms, a SETA might start out with a few members, perhaps the United States, the European Union, Japan, a few other advanced countries, and one or two big developing countries like Brazil and China.

UNCTAD (2009) noted that the markets for renewable energies and other EGs either do not exist or are weak in many developing countries, but a few developing countries have

become key players. China's participation is critical. As a leading exporter of renewable energy goods, China has strong commercial reasons to join.

One big question is whether unanimity or super-majorities will be required to accept new members into SETA, and to enlarge the product and subject matter coverage. Our thinking is that unanimous consent (the consensus rule) would freeze SETA at its starting position. Rather, in our view, it should be possible to expand country, product, and subject matter coverage upon an affirmative vote of 75 percent of the existing members, calculated in both of two ways: (1) one country, one vote; and (2) weighted according to their combined imports and exports of SETA products. The dual-test would ensure against a bulldozer expansion, either by small countries or by large countries. Moreover, as a last resort, a dissenting SETA member could give notice and leave the agreement.

### 3.4 Business Engagement

As witnessed in other sectoral negotiations, support from business is critical for success. The Information Technology Agreement (ITA) was strongly backed by leading companies such as IBM and Toshiba; the Basic

Telecommunications Agreement was backed by a large number of telecom firms.

Renewable energy markets are dominated by a handful companies, concentrated in a few countries. As table 6 shows, the top 10 manufacturers for solar PV cell and wind turbine accounted for about 42 percent and 80 percent of the world market share in 2010 respectively. Among leading global companies, some have already expressed their support for SETA. For example, John Krenicki, vice president of GE and CEO and president of GE Energy, called for an International Green Free Trade Agreement, aiming at removing trade barriers to renewable energy.<sup>36</sup> Vestas is another enthusiastic supporter. In the run up to the G20 summit held in Cannes in November 2011, the B20 working group, led by Ditlev Engel, President and CEO of Vestas, called on the G20 leaders to create a safe haven for the free trade of environmental goods and services by agreeing first to eliminate trade barriers among the G20 countries.<sup>37</sup>

Along with support from leading firms, the SETA could also enlist the backing of business organizations such as the World Business Council for Sustainable Development (WBCSD) which numbers more than 200 members.

# Conclusion

Over the past decade, the demand for clean technologies and products has soared. The demand will only get stronger as the consequences of climate change become more apparent. SETA talks provide a modest but practical way to make progress on one aspect of the overarching climate challenge.

In this paper, we have examined trade and tariff data for 39 narrowly-defined EGs, both for the world as a whole, and for selected “core” and “candidate” countries. In 2010, world imports of the 39 EGs accounted for about 1.7 percent of total imports of all products. While this does not seem like much, our starting point is modest, only 39 tariff lines out of more than 5,000 tariff lines identified at the HS six-digit level. In our view, a short list will better serve as a launch pad, but once SETA is off the ground, its product coverage should be enlarged.

In general, developing countries are more protective than developed countries, maintaining both higher bound and applied tariff rates. The mercantilist approach which dominates trade negotiations will very likely color trade negotiations in EGs, making it harder to bring developing countries within SETA. However, the specter of climate change has brought a greater appreciation of the benefits of importing EGs and acquiring associated technology.<sup>34</sup> Moreover, a few developing countries, notably China and India, have surged as big exporters of certain EGs to world market. These events raise the potential for both developed and developing countries to join the SETA talks.

While tariff rates range widely among our core and candidate countries, tariffs are not necessarily the biggest impediment to trade

in SETA products. In fact, many EGs which already enjoy low tariff rates still face severe NTBs, such as restrictive standards and local-content requirements (usually associated with government procurement or state-owned enterprises), subsidies limited to national firms, and restrictive standards. In our view, while tariff elimination for EGs should be the first priority in SETA talks, non-tariff barriers must also be addressed and several of them should be phased out. Our preliminary suggestion as to the priority order of NTBs is: local content requirements (LCRs), services, investment, subsidies and standards.

The Peterson Institute has examined negotiating approaches in companion papers.<sup>38</sup> Their application to SETA can be summarized in four precepts:

- The plausible model is the GPA, not the ITA – in other words, benefits extended on a conditional MFN basis, but the agreement open to all WTO members who subscribe to the obligations.
- If acceptable to three-fourths of WTO members, SETA should be part of the WTO framework. The benefit to SETA members is access to the WTO dispute settlement mechanism; the benefit to non-members is the possibility of accession at a later date.
- It should be possible to extend SETA coverage as to products and countries by a super-majority of members; unanimity should not be required.
- Support from the business community is vital. Leading firms and associations should be deeply involved at every stage of SETA negotiations.

# Endnotes

1. See Paragraph 31 (iii) of the Doha Declaration, available at [http://www.wto.org/english/thewto\\_e/minist\\_e/min01\\_e/mindecl\\_e.htm#tradeenvironment](http://www.wto.org/english/thewto_e/minist_e/min01_e/mindecl_e.htm#tradeenvironment)
2. In grappling with the difficulty of agreeing on a single EGS list, the negotiators have explored four approaches: 1) the list approach; 2) the request and offer approach; 3) the project approach; and 4) the integrated approach. Each approach will be discussed in detail later.
3. At the Asia-Pacific Economic Cooperation (APEC) summit held in Honolulu in November 2011, leaders agreed to develop a list of EGs in 2012 on which APEC economies will reduce applied tariffs to 5 percent or less by 2015, and eliminate non-tariff barriers, including local content requirements, that distort environmental goods and services trade. Carrying out this promise,, APEC leaders at the September 2012 Summit held in Vladivostok endorsed a list of 54 Environmental Goods (at HS six-digit level) for liberalization by the end of 2015. The full text of the 2012 APEC leaders' declaration and the list of Environmental Goods (Annex C) are available at [http://www.apec.org/Meeting-Papers/Leaders-Declarations/2012/2012\\_aelm.aspx](http://www.apec.org/Meeting-Papers/Leaders-Declarations/2012/2012_aelm.aspx).
4. EGs are considered to be set of manufactured products, technologies and chemicals used in association with environmental services; that is, pollution and waste affecting water, soil, and air. Recently, discussions taking place in the EGS negotiations extended to encompass so-called "environmentally preferable products (EPPs)". The EPPs are not necessarily used for environmental purposes but have positive environmental characteristic compared to substitute goods. The EPP concept draws on work undertaken by UNCTAD, which defines EPPs as products that cause significantly less environmental harm than alternative products serving the same purpose. Less environmental harm is judged by four criteria: (a) use of natural resources and energy; (b) quantitative amount and hazardous quality of waste generated by the product along its life cycle; (c) impact on human and animal health; and (d) preservation of the environment (UNCTAD 2011; UNESCWA 2007).
5. See Annex II. A, WTO (2011). Negotiations on EGs have taken place at the tariff line level -- six-digit codes -- rather than the product level -- eight-digit or ten-digit codes. Tariffs are internationally consistent only at the HS six-digit level;"over inclusiveness" avoids contentious disagreements on product definitions (Hufbauer *et al* 2010).
6. According to the World Bank (2007a), in the United States, more than 200 support measures are provided to biofuel producers. With this push, the production of biofuels has rapidly expanded and the OECD has projected that production could again double in the next decade (OECD 2008).
7. Ethanol and biodiesel are classified under broader HS six-digit categories that contain other products as well. Ethanol is traded under HS 2207, which covers un-denatured (HS220710) and denatured alcohol (HS 220720). While both denatured and un-denatured alcohol can be used for biofuel production, we only included un-denatured alcohol (HS 220710) in our list since it is considered more suitable for use as a fuel (denatured ethanol is often used as a solvent). Biodiesel is classified under HS code 382490 that includes products, preparations and residual products of the chemical or allied industries not elsewhere specified. Ethanol is classified as an agricultural product, while biodiesel is classified as an industrial product. Thanks to this difference, trade negotiations have so far been conducted within different WTO groups.



8. The UNCTAD (2011) identified only two types of renewable energy equipment that can pass the single end-use test at the HS six-digit level: (1) hydraulic turbines (841011, 841012, 841013) and (2) wind powered electricity generating sets (850231).

9. According to the press release by the United States Trade Representative (USTR), the core products included in the list are: renewable and clean energy technologies such as solar panels, and gas and wind turbines, on which tariffs in the region are currently as high as 35 percent; wastewater treatment technologies, such filters and ultraviolet (UV) disinfection equipment, on which tariffs in the region are currently as high as 21 percent; air pollution control technologies, such as soot removers and catalytic converters, on which tariffs in the region are as high as 20 percent; solid and hazardous waste treatment technologies, such as waste incinerators, and crushing and sorting machinery, on which tariffs in the region are currently as high as 20 percent; and environmental monitoring and assessment equipment, such as air and water quality monitors, and manometers to measure pressure, and water delivery systems, on which tariffs in the region are currently as high as 20 percent. See the press release by the USTR available at <http://www.ustr.gov/about-us/press-office/fact-sheets/2012/september/apec-environmental-goods>

10. All products are specified at the HS six-digit level.

11. For information, 10 products are in common between the World Bank list and the APEC list, and 5 products are in common among the three lists.

12. MFN bound rates range from almost zero (HS 854140, which covers solar photo-voltaic) to 45 percent (HS 220710, which covers ethanol used for fuel); MFN applied rates range from almost zero (HS 854140) to 15 percent (HS 220710); and effective applied rates range from almost zero (HS 854140) to 11 percent (HS 220710).

13. Among the core countries, Chile, Colombia and Peru have high bound MFN tariff rates. However, their applied rates are low, so binding at zero tariff levels should not be difficult.

14. The difference between bound and applied rates is often referred to as the “binding overhang” or the “water in the tariff”.

15. The United States imposes a 2.5 percent ad valorem tariff and 54 cents per gallon specific duty on imported ethanol. Since tariff data from TRAINS does not reflect a specific duty, we calculated that the *ad valorem* equivalent of the 54 cents per gallon amounts roughly to a 15 percent tariff, and added this figure to the bound, applied and effective rates for NAFTA.

16. In 2010, total imports of all 39 EGs within the NAFTA pact and within the European Union (27) were \$14 billion and \$60 billion respectively.

17. See Global Trade Alert (2011).

18. The full text of President Obama’s remarks in the State of the Union Address is available at <http://www.whitehouse.gov/the-press-office/2012/01/24/remarks-president-state-union-address>.

19. See *China — Measures concerning wind power equipment*, WT/DS419 (detailed information available at [http://www.wto.org/english/tratop\\_e/dispu\\_e/cases\\_e/ds419\\_e.htm](http://www.wto.org/english/tratop_e/dispu_e/cases_e/ds419_e.htm))

20. See *Canada — Certain Measures Affecting the Renewable Energy Generation Sector*, WT/DS412 (detailed information available at [http://www.wto.org/english/tratop\\_e/dispu\\_e/cases\\_e/ds412\\_e.htm](http://www.wto.org/english/tratop_e/dispu_e/cases_e/ds412_e.htm)).

21. See *Canada — Measures Relating to the Feed-in Tariff Program*, DS426 (detailed information available at [http://www.wto.org/english/tratop\\_e/dispu\\_e/cases\\_e/ds426\\_e.htm](http://www.wto.org/english/tratop_e/dispu_e/cases_e/ds426_e.htm))
22. See “France: State loan for Renault in return of a pledge to increase local content and to maintain employment,” *Global Trade Alert*, March 24, 2010 (available <http://www.globaltradealert.org/measure/france-state-loan-renault-return-pledge-increase-local-content-and-maintain-employment>)
23. Solar World Industries America, a solar panel manufacturer, and six other solar companies files petitions in October 2011 alleging that China is flooding the US market with underpriced solar panels and subsidizing its solar industry in violation of WTO rules. See “International Trade Commission: Chinese solar imports might threaten US companies,” *The Hill*, December 2, 2011 (available at <http://thehill.com/blogs/e2-wire/e2-wire/196907-international-trade-commission-says-chinese-solar-imports-may-harm-us-companies>)
24. The economic case for renewable is strongest when environmental externalities are taken into account or when potential customers are dispersed and do not have access to an electricity grid (Steenblik 2005).
25. The Korean standard does not apply to cadmium telluride, copper indium selenide and gallium arsenide solar panels. Korea is the only country in the world that specifically restricts application of the IEC standard to only one of the three leading types of thin film panels. See WTO (2011b) and USTR (2011)
26. See “Solar surge drives record clean energy investment in 2011,” press release, *Bloomberg New Energy Finance*, January 12, 2012 (available at <http://bnef.com/PressReleases/view/180>).
27. See Hufbauer *et al* (forthcoming April 2012).
28. Mode 1: Cross-border supply is defined to cover services flows from the territory of one Member into the territory of another Member (e.g. banking or architectural services transmitted via telecommunications or mail); mode 2: Consumption abroad refers to situations where a service consumer (e.g. tourist or patient) moves into another Member’s territory to obtain a service; mode 3: Commercial presence implies that a service supplier of one Member establishes a territorial presence, including through ownership or lease of premises, in another Member’s territory to provide a service (e.g. domestic subsidiaries of foreign insurance companies or hotel chains); and mode 4: Presence of natural persons consists of persons of one Member entering the territory of another Member to supply a service (e.g. accountants, doctors or teachers). For more details, see [http://www.wto.org/english/tratop\\_e/serv\\_e/gatsqa\\_e.htm](http://www.wto.org/english/tratop_e/serv_e/gatsqa_e.htm).
29. See Hufbauer and Schott (2012).
30. At that time, 29 countries or separate customs territories signed the Declaration, but it was unclear whether the ITA could go into effect since the original 29 signatories did not reach 90 percent trade coverage criterion stipulated by the Declaration. However, during the period leading up to the April 1997 deadline for notification, a number of other countries were added to the signatories. As a result the 90 percent criterion was met and the ITA went into effect on March 13, 1997. For more details, see [http://www.wto.org/english/tratop\\_e/inftec\\_e/inftec\\_e.htm](http://www.wto.org/english/tratop_e/inftec_e/inftec_e.htm)
31. There are three principles that one must abide by to become an ITA member. 1) all products listed in the Declaration must be covered, 2) all must be reduced to a zero tariff level, and 3) all other duties and charges must be bound at zero. There are no exceptions to product coverage, but for sensitive items, it is allowed to have an extended implementation period. The commitments undertaken under the ITA in the WTO are applied on an unconditional MFN basis. For more details, see [http://www.wto.org/english/tratop\\_e/inftec\\_e/inftec\\_e.htm](http://www.wto.org/english/tratop_e/inftec_e/inftec_e.htm)

32. Article IX (3) reads as follows: “In exceptional circumstances, the Ministerial Conference may decide to waive an obligation imposed on a Member by this Agreement or any of the Multilateral Trade Agreements, provided that any such decision shall be taken by three fourths (4) of the Members unless otherwise provided for in this paragraph.(a) A request for a waiver concerning this Agreement shall be submitted to the Ministerial Conference for consideration pursuant to the practice of decision-making by consensus. The Ministerial Conference shall establish a time-period, which shall not exceed 90 days, to consider the request. If consensus is not reached during the time-period, any decision to grant a waiver shall be taken by three fourths of the Members.(b) A request for a waiver concerning the Multilateral Trade Agreements in Annexes 1A or 1B or 1C and their annexes shall be submitted initially to the Council for Trade in Goods, the Council for Trade in Services or the Council for TRIPS, respectively, for consideration during a time-period which shall not exceed 90 days. At the end of the time-period, the relevant Council shall submit a report to the Ministerial Conference.” (available at [http://www.wto.org/english/docs\\_e/legal\\_e/04-wto\\_e.htm#articleIX](http://www.wto.org/english/docs_e/legal_e/04-wto_e.htm#articleIX))

33. See the summary of the dispute, *Canada — Certain Measures Affecting the Renewable Energy Generation Sector*, DS412 (available at [http://www.wto.org/english/tratop\\_e/dispu\\_e/cases\\_e/ds412\\_e.htm](http://www.wto.org/english/tratop_e/dispu_e/cases_e/ds412_e.htm))

34. In the absence of an internationally agreed definition, several lists of EGs were proposed and circulated by international organizations, including the OECD and APEC, in search for a starting point for the negotiations. Referring to lists proposed by members of WTO, the WTO Special Session of the Committee on Trade and Environment (CTE) has tried to nail down a single list.

35. See John Krenicki, “*Tearing Down Barriers to Green Trade Environment*,” July 16, 2010 (available at <http://www.gecitizenship.com/tearing-down-barriers-to-green-trade/>)

36. See ‘*G20 Business Summit press release*,’ November 9, 2011 (available at <http://www.vestas.com/en/media/news/news-display.aspx?action=3&NewsID=2477>)

37. Many developing countries have identified tariffs as one of impediments to technology transfer (UNFCCC 2009).

38. See Hufbauer *et al* (2012) and Hufbauer and Schott (2012).

# References

- Fliess, B. "The WTO Negotiations on Environmental Goods and Services: Need for a Change in Mindset Away from a Free-Standing Sectoral Deal" in *Trade and Environment Review*. New York/ Geneva: United Nations Conference on Trade and Development, 2009.
- Global Trade Alert. *Trade Tensions Mount: the 10th GTA Report*. London: CEPR/Global Trade Alert, 2011.
- Haufbauer, G.C., Jensen, J. B. and Stephenson, S. "Framework for the International Services Agreement". *forthcoming PIIE Policy Brief*. Washington DC: Peterson Institute for International Economics, April 2012.
- Haufbauer, G.C. and Schott, J. "Will the WTO Have a Bright Future", *Report to the ICC Foundation*. Washington DC: Peterson Institute for International Economics, 2012.
- Hufbauer, G. C., Schott, J. J. and Wong, W. F. "Figuring Out the Doha Round", *Policy Analysis 91*. Washington DC: Peterson Institute for International Economics, 2010.
- ICTSD. "Fostering Low Carbon Growth: The Case for a Sustainable Energy Trade Agreement." Geneva: International Centre for Trade and Sustainable Development, 2011.
- IEA. *World Energy Outlook 2011*. Paris: Organisation for Economic Co-operation and Development / International Energy Agency, 2011.
- Kirkegaard, J.F. Hanemann, T. and Weischer, L. "It should be a breeze: harnessing the potential of open trade and investment flows in the wind energy industry", *PIIE Working Paper Series 09-14*, Washington DC: Peterson Institute for International Economics, 2009.
- NFTC. "China's Promotion of the Renewable Electric Power Equipment Industry: Hydro, Wind, Solar and Biomass". Washington DC: National Foreign Trade Council, 2010.
- OECD. "Biofuel Support Policies: An Economic Assessment". Paris: Organisation for Economic Co-operation and Development, 2008.
- REN21. *Renewables 2011 Global Status Report*. Paris: REN21, 2011.
- Steenblik, R. "Liberalization of Trade in Renewable-Energy Products and Associated Goods: Charcoal, Solar Photovoltaic Systems, and Wind Pumps and Turbines", *OECD Trade and Environment Working PAPER No. 2005-07*. Paris: Organisation for Economic Co-operation and Development, 2005.
- UNCTAD. "WTO Negotiations on Environmental Goods: Selected Technical Issues". New York/ Geneva: United Nations Conference on Trade and Development, 2011.
- UNCTAD. *Trade and Environment Review 2009/2010*. New York/Geneva: United Nations Conference on Trade and Development, 2009.
- United Nations Economic and Social Commission for Western Asia (UNESCWA). "The Liberalization of Trade in Environmental Goods and Services in the ESCWA and Arab Regions". New York: United Nations, 2007.

UNFCCC. "Second synthesis report on technology needs identified by Parties not included in Annex I to the Convention". Bonn: United Nations Framework Convention on Climate Change, 2009.

USTR. "2011 Report on Technical Barriers to Trade". Washington DC: United States Trade Representative, 2011.

World Bank. *World Development Report 2008: Agriculture for Development*. Washington DC: World Bank, 2007.

World Bank. *International Trade and Climate Change*. Washington DC: World Bank, 2007.

World Economic Forum. *Global Agenda Council Reports 2010: Summaries of Global Agenda Council Discussions from the Summit on the Global Agenda 2009*. Geneva: World Economic Forum, 2010.

WTO. *Committee on trade and environment in special session*. Geneva: World Trade Organization, 2011.

WTO. *Specific Trade Concerns raised in the TBT Committee*. Geneva: World Trade Organization, 2011.

Vikhlywaev, A. "WTO Negotiations on Environmental Goods and Services: the Case of Renewables" in *Trade and Environment Review 2009/2010*. New York/Geneva: United Nations Conference for Trade and Development, 2009.



# Appendix A

**Table 1. List of SETA Products, Trade Values and Tariff Rates<sup>a</sup>**

HS Code		Description	“Imports from world (mill \$, 2010)“	Tariff Rates (2010) <sup>b</sup>			
				“MFN bound rates (%)”	MFN applied rates (%)	Effective applied rates (%)	Binding coverage (%)
Products categorized as ‘renewable energy’ only from the WTO (2011)							
3907		Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms					
1	390799	Other polyesters: Other	5 858,4	11,12	5,07	4,09	78
4016		Other articles of vulcanised rubber other than hard rubber					
2	401699	Other: other	8 329,1	11,57	5,38	4,25	77
4707		Recovered (waste and scrap) paper or paperboard					
3	470710	Recovered (waste & scrap) unbleached kraft paper/paperboard/corrugated paper/paperboard	4 239,4	4,08	0,69	0,62	77
4	470720	Other paper or paperboard made mainly of bleached chemical	834,7	16,01	1,23	1,20	76
5	470730	Paper or paperboard made mainly of mechanical pulp (for example, newspapers, journals and similar printed matter)	2 410,0	4,73	0,59	0,55	76
6	470790	Other, including unsorted waste and scrap	2 075,8	9,87	1,47	1,19	76
7308		Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel					
7	730820	Towers & lattice masts	2 812,1	13,84	4,05	3,20	74
8406		Steam turbines and other vapour turbines					
8	840682	Other turbines of an output not exceeding 40MW	486,9	17,84	4,30	3,66	79
8418		Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15					
9	841861	Other refrigerating or freezing equipment, heat pumps: Compression-type units whose condensers are heat exchangers	1 490,9	11,00	4,41	2,85	82
10	841869	Other refrigerating or freezing equipment heat pumps: Parts	4 639,3	14,81	5,91	4,13	82
8419		Machinery, plant or laboratory equipment					
11	841919	Instantaneous or storage water heaters, non-electric: Other	1 720,2	8,40	3,89	2,44	81
8479		Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter					
12	847920	Machinery for the extraction or preparation of animal or fixed vegetable fats or oils	351,6	15,43	2,29	1,06	81
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)					

HS Code		Description	"Imports from world (mill \$, 2010)"	Tariff Rates (2010) <sup>b</sup>			
				"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)	Binding coverage (%)
13	848340	Gears, gearing (excluding toothed wheels, chain sprockets and other transmission elements presented separately); ball or roller screws; gear boxes, other speed changers, including torque converters	11 616,2	12,30	4,77	4,33	82
14	848360	Clutches & shaft couplings (incl. universal joints)	2 128,0	12,08	4,86	4,37	82
8501		Electric motors and generators (excluding generating sets)					
15	850161	AC generators (alternators), of an output not exceeding 75 Kva	804,2	11,37	4,39	3,77	85
16	850162	AC generators (alternator), of an output exceeding 75 kVA but not exceeding 375 kVA	497,3	12,51	4,68	3,84	86
17	850163	AC generators (alternator), of an output exceeding 375 kVA but not exceeding 750 kVA	270,1	11,45	3,94	2,97	85
18	850164	AC generators (alternator), of an output exceeding 750 kVA	2 171,2	11,84	3,74	3,38	84
8502		Electric generating sets and rotary converters					
19	850231	Other generating sets: Wind-powered	5 713,7	8,16	3,27	3,04	82
20	850239	Other generating sets: other	5 185,5	16,65	2,57	2,17	82
8506		Primary cells and primary batteries					
21	850610	Primary cells & primary batteries, manganese dioxide	2 902,1	13,26	7,91	6,66	79
22	850630	Primary cells & primary batteries, mercuric oxide	19,8	14,31	9,99	9,43	79
23	850640	Primary cells & primary batteries, silver oxide	183,9	9,80	4,67	3,52	79
24	850650	Primary cells & primary batteries, lithium	1 817,5	10,95	5,00	3,96	79
25	850660	Primary cells & primary batteries, air-zinc	170,2	9,46	3,02	2,37	79
26	850690	Parts	246,3	11,59	2,67	2,22	79
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27	850720	Other lead – Acid accumulators	4 025,0	15,42	6,39	5,28	80
28	850740	Nickel-iron	39,1	15,87	7,02	4,15	80
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29	853710	For a voltage not exceeding 1,000 V	25 271,4	10,29	4,85	3,94	81
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30	854140	Photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes.	64 126,0	0,55	0,04	0,04	84
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked					
31	900190	other	6 238,9	7,35	5,53	5,14	75
9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked					
32	900290	other	1 484,0	7,38	5,51	5,18	75

HS Code		Description	“Imports from world (mill \$, 2010)“	Tariff Rates (2010) <sup>b</sup>			
				“MFN bound rates (%)”	MFN applied rates (%)	Effective applied rates (%)	Binding coverage (%)
Other Products c							
2207		Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat d					
33	220710	Undenatured ethyl alcohol of an alcoholic strength	3 858,6	45,21	14,70	10,97	98
3824		Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included					
34	382490	Other e	30 788,5	9,67	5,02	3,95	77
8410		Hydraulic turbines, water wheels, and regulators therefor					
35	841011	Hydraulic turbines and water wheels of a power not exceeding 1,000 kW .	69,1	20,50	4,76	3,51	81
36	841090	Parts, including regulators	952,5	14,73	4,96	3,17	81
8411		Turbo-jets, turbo-propellers and other gas turbines					
37	841181	Other gas turbines of a power not exceeding 5,000 kW	1 385,7	8,33	1,73	1,37	81
38	841182	Other gas turbines of a power exceeding 5,000 kW	3 966,2	17,35	3,75	3,29	81
8503		Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02					
39	850300	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02.	13 549,2	13,30	3,88	3,10	82
Memorandum:							
	All 39 SEFTA products		224 728,5	8,26	3,31	2,73	80
	All products		13 048 386,3	9,19	4,10	3,11	79
	Industrial Products		11 570 139,7	8,15	3,65	2,74	76

Notes:

- The calculations here use a list of 32 EGs found under the sole category of 'renewable energy' in the list found in the Annex II. A of the WTO (2011) plus 6 EGs based on our judgement that are described both as 'renewable energy' and another category such as 'environmental technologies, plus un-denatured ethyl alcohol (HS 220710). The WTO (2011) reviewed all proposals of EGs of interest, put forward by the members, and presented a comprehensive list which covers 408 EGs at the HS six digit level.
- Tariff rates are weighted average; The effective applied rates take account of preferential trade agreements.
- Other products are selected based on authors' judgment. Except for HS 220710, all other products are also found in the WTO (2011) but labeled not only 'renewable energy' but also something else (e.g. 'environmental technologies')
- There is currently no specific customs classification for bioethanol for biofuel production. This product is traded under HS 2207, which covers un-denatured (HS220710) and denatured alcohol (HS 220720). While both denatured and un-denatured alcohol can be used for biofuel production, in this table, we only include un-denatured alcohol (HS 220710) since it seems more suitable for use as a fuel (denatured ethanol is often used as a solvent).
- There is currently no specific customs classification for biodiesel for biofuel production. Biodiesel is classified under HS code 382490 which covers some other products.

Source: For a list of 39 product at the HS six digit level, World Trade Organization (2011); for trade values, UNCOMTRADE and for tariff rates, TRAINS (both accessed through the WITS on September 24, 2011)

**Table 2. Tariff Rates for SETA products by Selected Countries (tariff year 2010)<sup>a</sup>**

HS Code	NAFTA			EU 27		
	"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)	"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)
Products categorized as 'renewable energy' only from the WTO (2011)						
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkylid resins, polyallyl esters and other polyesters, in primary forms					
1 390799	15,14	3,76	3,21	9,60	5,60	2,40
4016	Other articles of vulcanised rubber other than hard rubber					
2 401699	11,79	2,37	1,61	10,80	6,25	2,53
4707	Recovered (waste and scrap) paper or paperboard					
3 470710	23,17	0,00	0,00	9,88	0,13	0,07
4 470720	28,47	0,00	0,00	10,06	0,00	0,00
5 470730	3,94	0,00	0,00	13,15	0,03	0,00
6 470790	15,97	0,00	0,00	20,88	0,01	0,00
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel					
7 730820	0,13	0,02	0,02	12,24	0,91	0,45
8406	Steam turbines and other vapour turbines					
8 840682	19,94	3,85	3,56	9,82	5,48	1,26
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15					
9 841861	5,84	1,95	0,99	9,35	5,16	1,50
10 841869	4,64	1,44	1,43	11,41	5,29	2,49
8419	Machinery, plant or laboratory equipment					
11 841919	3,76	2,00	0,81	13,52	5,35	2,59
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter					
12 847920	7,25	0,00	0,00	12,96	5,20	2,33
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)					
13 848340	5,32	1,22	1,05	11,31	5,50	3,32
14 848360	7,82	3,10	2,73	10,00	5,31	3,34
8501	Electric motors and generators (excluding generating sets)					
15 850161	3,43	2,24	1,67	10,67	6,19	4,56
16 850162	4,43	2,93	1,79	10,80	8,07	7,26
17 850163	3,53	2,61	1,04	15,97	6,98	4,95
18 850164	3,99	2,16	2,02	23,41	8,20	6,18
8502	Electric generating sets and rotary converters					
19 850231	4,40	2,46	2,44	21,24	1,65	0,09
20 850239	6,30	2,60	1,84	17,04	6,14	4,19
8506	Primary cells and primary batteries					
21 850610	8,61	2,52	1,26	16,09	7,61	3,27
22 850630	15,70	3,94	3,74	20,38	10,99	10,73
23 850640	5,37	3,44	2,35	13,08	6,86	5,06
24 850650	11,22	2,13	1,38	11,62	6,45	4,51
25 850660	5,51	4,15	2,88	11,12	7,11	3,50
26 850690	2,97	2,40	1,89	9,65	4,08	3,22

HS Code	NAFTA			EU 27		
	"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)	"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)
8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27 850720	6,93	3,77	2,42	10,86	4,47	2,12
28 850740	9,94	2,76	2,24	8,45	4,48	4,05
8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29 853710	5,84	2,51	1,34	12,97	5,00	2,85
8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30 854140	5,57	0,00	0,00	5,45	1,15	1,15
9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked					
31 900190	10,54	2,28	1,76	9,81	3,82	2,15
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked					
32 900290	3,67	1,79	1,12	11,06	6,11	4,76
Other Products						
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat					
33 220710	22.24b	18.34b	16.28b	36,29	31,45	3,36
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included					
34 382490	11,80	2,65	1,98	12,24	5,20	1,65
8410	Hydraulic turbines, water wheels, and regulators therefor					
35 841011	8,05	3,31	2,58	11,52	4,54	1,83
36 841090	5,46	3,11	1,81	15,05	8,26	2,55
8411	Turbo-jets, turbo-propellers and other gas turbines					
37 841181	5,48	0,91	0,62	11,13	4,29	4,15
38 841182	10,57	1,21	0,34	11,56	5,14	3,49
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02					
39 850300	11,22	2,19	1,33	11,44	6,19	3,68
All 39 SETA products	7,12	1,96	1,36	11,45	4,63	2,34



HS Code	Chile			Colombia		
	"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)	"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)
Products categorized as 'renewable energy' only from the WTO (2011)						
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms					
1 390799	25,00	6,00	3,63	35,00	15,00	10,12
4016	Other articles of vulcanised rubber other than hard rubber					
2 401699	25,00	6,00	5,63	35,00	14,29	13,07
4707	Recovered (waste and scrap) paper or paperboard					
3 470710	25,00	6,00	5,77	35,00	5,00	4,67
4 470720	25,00	6,00	6,00	35,00	5,00	4,76
5 470730	25,00	6,00	4,73	35,00	5,00	3,60
6 470790	25,00	6,00	5,85	35,00	5,00	4,75
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel					
7 730820	25,00	6,00	1,17	35,00	15,00	14,13
8406	Steam turbines and other vapour turbines					
8 840682	25,00	6,00	3,66	35,00	5,00	5,00
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15					
9 841861	25,00	6,00	5,10	35,00	15,00	10,72
10 841869	25,00	6,00	5,39	35,00	12,50	9,96
8419	Machinery, plant or laboratory equipment					
11 841919	25,00	6,00	2,00	35,00	20,00	6,45
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter					
12 847920	25,00	6,00	5,94	35,00	10,00	10,00
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)					
13 848340	25,00	6,00	5,77	35,00	10,00	9,50
14 848360	25,00	6,00	5,68	35,00	7,50	7,30
8501	Electric motors and generators (excluding generating sets)					
15 850161	25,00	6,00	5,74	35,00	8,33	7,05
16 850162	25,00	6,00	5,48	35,00	10,00	2,16
17 850163	25,00	6,00	5,13	35,00	10,00	2,58
18 850164	25,00	6,00	5,04	35,00	10,00	9,99
8502	Electric generating sets and rotary converters					
19 850231	25,00	6,00	6,00	35,00	10,00	10,00
20 850239	25,00	6,00	5,82	35,00	12,50	7,59
8506	Primary cells and primary batteries					
21 850610	25,00	6,00	5,96	35,00	10,71	10,70
22 850630	25,00	6,00	6,00	35,00	5,00	5,00
23 850640	25,00	6,00	6,00	35,00	5,00	5,00
24 850650	25,00	6,00	5,83	35,00	5,00	4,99
25 850660	25,00	6,00	5,99	35,00	5,00	5,00
26 850690	25,00	6,00	5,92	35,00	5,00	5,00

HS Code	Chile			Colombia		
	"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)	"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)
8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27 850720	25,00	6,00	5,01	35,00	15,00	14,81
28 850740	25,00	6,00	5,93	35,00	5,00	4,92
8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29 853710	25,00	6,00	5,10	35,00	15,00	13,10
8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30 854140	25,00	6,00	5,58	35,00	5,00	4,90
9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked					
31 900190	25,00	6,00	5,97	35,00	5,00	4,96
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked					
32 900290	25,00	6,00	5,96	35,00	5,00	4,96
Other Products						
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat					
33 220710	25,00	6,00	0,16	70,00	15,00	10,19
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included					
34 382490	25,00	6,00	4,96	35,00	7,25	6,65
8410	Hydraulic turbines, water wheels, and regulators therefor					
35 841011	24,00	6,00	5,96	35,00	15,00	12,98
36 841090	25,00	6,00	2,66	35,00	5,00	2,84
8411	Turbo-jets, turbo-propellers and other gas turbines					
37 841181	25,00	6,00	5,82	35,00	5,00	5,00
38 841182	25,00	6,00	6,00	35,00	5,00	5,00
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02					
39 850300	25,00	6,00	5,41	35,00	10,00	9,34
All 39 SETA products	25,00	6,00	5,22	36,85	9,69	8,48

HS Code	Peru			Australia		
	"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)	"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)
Products categorized as 'renewable energy' only from the WTO (2011)						
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms					
1 390799	30,00	0,00	0,00	10,00	5,00	2,97
4016	Other articles of vulcanised rubber other than hard rubber					
2 401699	30,00	6,43	5,91	15,00	5,00	3,36
4707	Recovered (waste and scrap) paper or paperboard					
3 470710	30,00	0,00	0,00			
4 470720	30,00	0,00	0,00	0,00	0,00	0,00
5 470730				0,00	0,00	0,00
6 470790	30,00	0,00	0,00	0,00	0,00	0,00
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel					
7 730820	30,00	0,00	0,00	10,00	5,00	3,71
8406	Steam turbines and other vapour turbines					
8 840682	30,00	0,00	0,00	21,00	0,00	0,00
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15					
9 841861	30,00	0,00	0,00	25,00	5,00	4,29
10 841869	30,00	0,00	0,00	15,00	5,00	3,22
8419	Machinery, plant or laboratory equipment					
11 841919	30,00	9,00	7,99	15,00	5,00	4,92
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter					
12 847920	30,00	0,00	0,00	10,00	0,00	0,00
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)					
13 848340	30,00	6,75	6,41	18,00	5,00	3,79
14 848360	30,00	0,00	0,00	13,00	5,00	3,71
8501	Electric motors and generators (excluding generating sets)					
15 850161	30,00	0,00	0,00	10,00	5,00	2,76
16 850162	30,00	0,00	0,00	10,00	5,00	3,17
17 850163	30,00	0,00	0,00	0,00	0,00	0,00
18 850164	30,00	0,00	0,00	0,00	0,00	0,00
8502	Electric generating sets and rotary converters					
19 850231	30,00	0,00	0,00	5,00	2,50	2,21
20 850239	30,00	0,00	0,00	5,00	2,50	2,06
8506	Primary cells and primary batteries					
21 850610	30,00	9,00	8,68	15,00	0,00	0,00
22 850630				15,00	0,00	0,00
23 850640	30,00	9,00	0,00	15,00	0,00	0,00
24 850650	30,00	9,00	8,99	15,00	0,00	0,00
25 850660	30,00	9,00	9,00	15,00	0,00	0,00
26 850690	30,00	9,00	9,00	15,00	0,00	0,00

HS Code	Peru			Australia		
	"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)	"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)
8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27 850720	30,00	9,00	8,92	18,00	5,00	3,97
28 850740	30,00	9,00	8,98	21,00	5,00	2,00
8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29 853710	30,00	0,00	0,00	10,00	2,50	1,40
8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30 854140	30,00	0,00	0,00	0,00	0,00	0,00
9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked					
31 900190	30,00	9,00	9,00	3,50	2,50	1,49
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked					
32 900290	30,00	9,00	9,00	1,00	0,00	0,00
Other Products						
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat					
33 220710	30,00	9,00	2,92	10,00	5,00	2,61
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included					
34 382490	30,00	3,44	3,03	10,00	1,00	0,58
8410	Hydraulic turbines, water wheels, and regulators therefor					
35 841011	30,00	0,00	0,00	15,00	5,00	4,42
36 841090	30,00	0,00	0,00	15,00	5,00	3,79
8411	Turbo-jets, turbo-propellers and other gas turbines					
37 841181	30,00	0,00	0,00	0,00	0,00	0,00
38 841182	30,00	0,00	0,00	0,00	0,00	0,00
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02					
39 850300	30,00	0,00	0,00	15,00	5,00	4,65
All 39 SETA products	30,00	2,08	1,86	9,20	2,70	2,06

HS Code	New Zealand			Singapore		
	"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)	"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)
Products categorized as 'renewable energy' only from the WTO (2011)						
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms					
1 390799	13,00	2,50	1,34	6,50	0,00	0,00
4016	Other articles of vulcanised rubber other than hard rubber					
2 401699	13,37	3,61	1,46		0,00	0,00
4707	Recovered (waste and scrap) paper or paperboard					
3 470710				0,00	0,00	0,00
4 470720				0,00	0,00	0,00
5 470730	0,00	0,00	0,00	0,00	0,00	0,00
6 470790	0,00	0,00	0,00	0,00	0,00	0,00
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel					
7 730820	27,00	5,00	4,86		0,00	0,00
8406	Steam turbines and other vapour turbines					
8 840682					0,00	0,00
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15					
9 841861	25,00	5,00	4,49	10,00	0,00	0,00
10 841869	25,00	5,00	3,39	5,00	0,00	0,00
8419	Machinery, plant or laboratory equipment					
11 841919	25,00	5,00	3,52	10,00	0,00	0,00
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter					
12 847920	25,00	5,00	4,88	0,00	0,00	0,00
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)					
13 848340	31,67	5,00	4,59	10,00	0,00	0,00
14 848360	25,00	5,00	4,24		0,00	0,00
8501	Electric motors and generators (excluding generating sets)					
15 850161	16,50	5,00	4,35		0,00	0,00
16 850162	16,50	5,00	4,66	10,00	0,00	0,00
17 850163	16,50	5,00	5,00	10,00	0,00	0,00
18 850164	16,50	5,00	4,25		0,00	0,00
8502	Electric generating sets and rotary converters					
19 850231	16,50	2,50	2,50	10,00	0,00	0,00
20 850239	16,50	5,00	4,97	10,00	0,00	0,00
8506	Primary cells and primary batteries					
21 850610	18,25	0,00	0,00		0,00	0,00
22 850630	25,00	0,00	0,00		0,00	0,00
23 850640	25,00	0,00	0,00		0,00	0,00
24 850650	25,00	0,00	0,00		0,00	0,00
25 850660	25,00	0,00	0,00		0,00	0,00
26 850690	25,00	0,00	0,00	10,00	0,00	0,00



HS Code	New Zealand			Singapore		
	"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)	"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)
8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27	850720	22,00	5,00	3,95	0,00	0,00
28	850740	22,00	5,00	3,13	0,00	0,00
8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29	853710	30,00	5,00	3,80	10,00	0,00
8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30	854140	0,00	0,00	0,00	0,00	0,00
9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked					
31	900190	7,50	2,50	2,12	0,00	0,00
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked					
32	900290	14,00	5,00	2,95	0,00	0,00
Other Products						
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat					
33	220710	2,43	0,00	0,00	0,00	0,00
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included					
34	382490	3,42	0,29	0,18	6,50	0,00
8410	Hydraulic turbines, water wheels, and regulators therefor					
35	841011	0,00	0,00	0,00	0,00	0,00
36	841090	0,00	0,00	0,00	10,00	0,00
8411	Turbo-jets, turbo-propellers and other gas turbines					
37	841181	0,00	0,00	0,00	10,00	0,00
38	841182	0,00	0,00	0,00	10,00	0,00
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02					
39	850300	16,83	5,00	4,87	0,00	0,00
All 39 SETA products		16,12	3,33	2,89	6,39	0,00

HS Code	Japan			Korea		
	"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)	"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)
Products categorized as 'renewable energy' only from the WTO (2011)						
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms					
1 390799	0,00	3,10	2,19	6,50	6,50	5,76
4016	Other articles of vulcanised rubber other than hard rubber					
2 401699	0,00	0,00	0,00	10,40	6,40	5,72
4707	Recovered (waste and scrap) paper or paperboard					
3 470710	0,00	0,00	0,00	0,00	0,00	0,00
4 470720	0,00	0,00	0,00	0,00	0,00	0,00
5 470730	0,00	0,00	0,00	0,00	0,00	0,00
6 470790	0,00	0,00	0,00	0,00	0,00	0,00
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel					
7 730820	0,00	0,00	0,00	13,00	8,00	8,00
8406	Steam turbines and other vapour turbines					
8 840682	0,00	0,00	0,00	5,00	5,00	5,00
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15					
9 841861	0,00	0,00	0,00	13,00	8,00	8,00
10 841869	0,00	0,00	0,00	13,00	8,00	7,98
8419	Machinery, plant or laboratory equipment					
11 841919	0,00	0,00	0,00	13,00	8,00	8,00
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter					
12 847920	0,00	0,00	0,00	13,00	8,00	8,00
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)					
13 848340	0,00	0,00	0,00	12,00	6,75	6,75
14 848360	0,00	0,00	0,00	9,00	5,50	5,50
8501	Electric motors and generators (excluding generating sets)					
15 850161	0,00	0,00	0,00	13,00	8,00	8,00
16 850162	0,00	0,00	0,00	13,00	8,00	8,00
17 850163	0,00	0,00	0,00	0,00	4,00	4,00
18 850164	0,00	0,00	0,00	0,00	0,00	0,00
8502	Electric generating sets and rotary converters					
19 850231	0,00	0,00	0,00		8,00	8,00
20 850239	0,00	0,00	0,00		8,00	8,00
8506	Primary cells and primary batteries					
21 850610	0,00	0,00	0,00	13,00	11,33	10,86
22 850630				13,00	8,00	8,00
23 850640	0,00	0,00	0,00	13,00	8,00	8,00
24 850650	0,00	0,00	0,00	13,00	8,00	8,00
25 850660	0,00	0,00	0,00	13,00	8,00	8,00
26 850690	0,00	0,00	0,00	13,00	8,00	8,00

HS Code		Japan			Korea		
		"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)	"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27	850720	0,00	0,00	0,00		8,00	6,34
28	850740	0,00	0,00	0,00		8,00	8,00
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29	853710	0,00	0,00	0,00		8,00	8,00
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30	854140	0,00	0,00	0,00	0,00	0,00	0,00
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked					
31	900190	0,00	0,00	0,00	8,00	8,00	8,00
9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked					
32	900290	0,00	0,00	0,00	13,00	6,33	6,33
Other Products							
2207		Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat					
33	220710	27,20	1,67	1,67	130,00	103,33	103,33
3824		Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included					
34	382490	0,47	2,20	1,35	6,47	6,37	6,33
8410		Hydraulic turbines, water wheels, and regulators therefor					
35	841011	0,00	0,00	0,00	6,50	4,00	4,00
36	841090	0,00	0,00	0,00	6,50	4,00	4,00
8411		Turbo-jets, turbo-propellers and other gas turbines					
37	841181	0,00	0,00	0,00	9,00	6,33	6,33
38	841182	0,00	0,00	0,00	9,00	6,33	6,33
8503		Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02					
39	850300	0,00	0,00	0,00	13,00	8,00	7,80
All 39 SETA products		1,51	0,48	0,33	6,51	5,63	5,58

HS Code		Brazil			China		
		"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)	"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)
Products categorized as 'renewable energy' only from the WTO (2011)							
3907		Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms					
1	390799	20,00	8,00	7,76	6,50	6,50	5,79
4016		Other articles of vulcanised rubber other than hard rubber					
2	401699	35,00	9,00	8,87	9,00	9,00	8,29
4707		Recovered (waste and scrap) paper or paperboard					
3	470710	35,00	2,00	0,15	0,00	0,00	0,00
4	470720	35,00	2,00	2,00	1,00	0,00	0,00
5	470730	35,00	2,00	2,00	1,00	0,00	0,00
6	470790	35,00	2,00	0,25	1,00	0,00	0,00
7308		Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel					
7	730820	35,00	14,00	13,79	8,40	8,40	8,40
8406		Steam turbines and other vapour turbines					
8	840682	32,50	14,00	14,00	5,00	5,00	5,00
8418		Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15					
9	841861	35,00	14,00	13,88	10,00	12,50	11,27
10	841869	35,00	13,71	13,60	15,00	10,00	2,97
8419		Machinery, plant or laboratory equipment					
11	841919	35,00	20,00	16,15	35,00	35,00	34,79
8479		Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter					
12	847920	35,00	14,00	5,07	10,00	10,00	8,99
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)					
13	848340	30,71	14,00	13,71	8,00	8,00	7,80
14	848360	28,33	14,00	13,79	8,00	8,00	7,98
8501		Electric motors and generators (excluding generating sets)					
15	850161	35,00	14,00	13,52	5,00	5,00	4,97
16	850162	35,00	14,00	9,15	12,00	12,00	10,05
17	850163	35,00	14,00	6,44	12,00	12,00	11,99
18	850164	35,00	14,00	13,89	7,27	7,27	7,13
8502		Electric generating sets and rotary converters					
19	850231	35,00	14,00	14,00	8,00	8,00	8,00
20	850239	35,00	14,00	14,00	10,00	10,00	10,00
8506		Primary cells and primary batteries					
21	850610	35,00	16,00	16,00	20,00	20,00	17,67
22	850630				14,00	14,00	13,01
23	850640	35,00	8,00	8,00	14,00	14,00	13,97
24	850650	35,00	8,00	8,00	14,00	14,00	10,45
25	850660	35,00	8,00	8,00	14,00	14,00	13,20
26	850690	35,00	14,00	14,00	12,00	12,00	8,32

HS Code		Brazil			China		
		“MFN bound rates (%)”	MFN applied rates (%)	Effective applied rates (%)	“MFN bound rates (%)”	MFN applied rates (%)	Effective applied rates (%)
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27	850720	25,00	18,00	16,54	10,00	10,00	8,04
28	850740	35,00	18,00	18,00	12,00	12,00	12,00
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29	853710	35,00	12,00	11,56	6,70	6,13	5,60
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30	854140	20,59	1,89	1,89	0,00	0,00	0,00
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked					
31	900190	35,00	18,00	17,92	8,00	8,00	7,49
9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked					
32	900290	35,00	16,00	16,00	15,00	15,00	14,61
Other Products							
2207		Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat					
33	220710	35,00	20,00	16,32	40,00	40,00	38,55
3824		Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included					
34	382490	19,65	8,22	7,87	6,92	6,92	6,32
8410		Hydraulic turbines, water wheels, and regulators therefor					
35	841011	35,00	14,00	14,00	10,00	10,00	10,00
36	841090	30,00	14,00	13,91	6,00	6,00	6,00
8411		Turbo-jets, turbo-propellers and other gas turbines					
37	841181	10,00	0,00	0,00	15,00	15,00	15,00
38	841182	10,00	0,00	0,00	3,00	3,00	3,00
8503		Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02					
39	850300	30,00	14,00	13,95	6,50	6,00	5,51
All 39 SETA products		29,32	11,30	11,02	4,78	4,54	4,08



HS Code	India			Indonesia		
	"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)	"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)
Products categorized as 'renewable energy' only from the WTO (2011)						
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms					
1 390799	40,00	8,00	7,79	40,00	5,00	0,86
4016	Other articles of vulcanised rubber other than hard rubber					
2 401699		10,00	9,98	40,91	6,67	2,25
4707	Recovered (waste and scrap) paper or paperboard					
3 470710	40,00	10,00	9,63	40,00	5,00	3,81
4 470720	40,00	10,00	9,89	40,00	5,00	4,26
5 470730	40,00	10,00	9,86	40,00	5,00	4,53
6 470790	40,00	10,00	8,72	40,00	5,00	3,89
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel					
7 730820	40,00	10,00	10,00		12,50	1,99
8406	Steam turbines and other vapour turbines					
8 840682	25,00	8,00	7,99	40,00	5,00	1,58
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15					
9 841861	25,00	8,00	7,58	40,00	5,00	3,07
10 841869	25,00	8,67	8,66	40,00	5,00	1,32
8419	Machinery, plant or laboratory equipment					
11 841919	40,00	9,00	9,00	40,00	7,50	4,77
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter					
12 847920	25,00	8,00	7,98	30,00	5,00	0,16
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)					
13 848340	40,00	8,00	8,00	40,00	5,00	3,04
14 848360	40,00	8,00	7,99	40,00	5,00	2,34
8501	Electric motors and generators (excluding generating sets)					
15 850161	25,00	8,00	8,00	40,00	10,00	1,12
16 850162	25,00	8,00	7,99	40,00	10,00	0,55
17 850163	25,00	8,00	8,00	40,00	10,00	1,23
18 850164	25,00	8,00	7,92	40,00	10,00	1,78
8502	Electric generating sets and rotary converters					
19 850231	25,00	8,00	8,00	40,00	10,00	7,63
20 850239	40,00	8,00	7,95	40,00	10,00	2,91
8506	Primary cells and primary batteries					
21 850610	40,00	10,00	9,53	40,00	10,00	0,75
22 850630	40,00	10,00	10,00	40,00	10,00	10,00
23 850640	40,00	10,00	9,81	40,00	10,00	5,76
24 850650	40,00	10,00	8,89	40,00	10,00	0,57
25 850660	40,00	10,00	10,00	40,00	10,00	1,49
26 850690	40,00	10,00	9,76	40,00	0,00	0,00

HS Code		India			Indonesia		
		"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)	"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27	850720	40,00	10,00	9,98	40,00	15,00	4,17
28	850740	40,00	10,00	8,27	40,00	10,00	0,51
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29	853710	40,00	8,00	7,91	40,00	5,00	1,73
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30	854140	0,00	0,00	0,00	0,00	0,00	0,00
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked					
31	900190	40,00	10,00	9,73	40,00	5,00	1,42
9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked					
32	900290		10,00	8,33	40,00	3,00	0,59
Other Products							
2207		Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat					
33	220710	150,00	150,00	150,00	70,00	30,00	13,57
3824		Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included					
34	382490	40,00	8,00	7,97	40,00	5,00	3,30
8410		Hydraulic turbines, water wheels, and regulators therefor					
35	841011	25,00	8,00	8,00	30,00	5,00	0,42
36	841090	25,00	8,00	7,92	30,00	5,00	2,31
8411		Turbo-jets, turbo-propellers and other gas turbines					
37	841181	25,00	8,00	8,00	33,33	5,00	1,46
38	841182	25,00	8,00	8,00	33,33	5,00	0,35
8503		Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02					
39	850300	25,00	8,00	7,98	40,00	4,00	1,59
All 39 SETA products		33,30	8,97	8,86	37,10	5,25	2,19

HS Code	Turkey			South Africa		
	"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)	"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)
Products categorized as 'renewable energy' only from the WTO (2011)						
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms					
1 390799	33,20	3,25	1,70	15,00	0,00	0,00
4016	Other articles of vulcanised rubber other than hard rubber					
2 401699	14,44	2,32	0,41	21,82	5,77	3,88
4707	Recovered (waste and scrap) paper or paperboard					
3 470710		0,00	0,00	5,00	0,00	0,00
4 470720		0,00	0,00			
5 470730		0,00	0,00	5,00	0,00	0,00
6 470790		0,00	0,00	5,00	0,00	0,00
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel					
7 730820		0,00	0,00	15,00	7,50	6,20
8406	Steam turbines and other vapour turbines					
8 840682		2,70	0,01	0,00	0,00	0,00
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15					
9 841861		2,20	0,16	30,00	12,50	9,03
10 841869	5,00	2,20	0,11	30,00	5,00	3,13
8419	Machinery, plant or laboratory equipment					
11 841919		2,60	0,01	12,50	7,50	6,50
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter					
12 847920		1,70	0,04	10,00	0,00	0,00
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)					
13 848340	13,78	1,96	0,31	10,00	0,00	0,00
14 848360	13,33	1,35	0,25	12,50	0,00	0,00
8501	Electric motors and generators (excluding generating sets)					
15 850161	13,33	1,35	0,14	20,00	7,50	5,56
16 850162	12,60	1,35	0,05	20,00	10,00	5,90
17 850163	12,00	2,70	0,00	20,00	0,00	0,00
18 850164	14,00	2,70	0,98	20,00	0,00	0,00
8502	Electric generating sets and rotary converters					
19 850231	13,60	1,35	0,00	20,00	0,00	0,00
20 850239	12,93	1,80	0,01	15,00	11,25	4,77
8506	Primary cells and primary batteries					
21 850610		4,70	0,03	20,00	10,00	6,20
22 850630		4,70	0,00	20,00	0,00	0,00
23 850640		4,70	3,25	20,00	0,00	0,00
24 850650		4,70	3,17	20,00	10,00	8,91
25 850660		4,70	1,13	20,00	0,00	0,00
26 850690		4,70	0,58	20,00	0,00	0,00

HS Code	Turkey			South Africa		
	"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)	"MFN bound rates (%)"	MFN applied rates (%)	Effective applied rates (%)
8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27 850720		3,70	0,17	15,00	0,00	0,00
28 850740		2,70	0,00	15,00	0,00	0,00
8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29 853710	13,60	2,10	0,32	20,00	11,67	6,00
8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30 854140	0,00	0,00	0,00	10,00	0,00	0,00
9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked					
31 900190	7,50	1,45	1,01	15,00	0,00	0,00
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked					
32 900290	8,00	3,35	1,37	10,00	0,00	0,00
Other Products						
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat					
33 220710	102,00	27,50	26,60	597,00		0,00
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included					
34 382490	14,50	4,90	0,37	14,84	3,75	1,79
8410	Hydraulic turbines, water wheels, and regulators therefor					
35 841011		4,50	0,00	0,00	0,00	0,00
36 841090		4,50	0,06	0,00	0,00	0,00
8411	Turbo-jets, turbo-propellers and other gas turbines					
37 841181	4,00	2,05	1,46	0,00	0,00	0,00
38 841182	3,00	2,05	0,46	0,00	0,00	0,00
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02					
39 850300	21,00	2,70	0,07	15,00	11,25	4,77
All 39 SETA products	14,14	2,68	0,40	21,24	3,50	1,93

Notes:

- Tariff rates are weighted average. Tariff years are 2010 except for India (2009).
- Ethanol is classified for trade purposes as HS 220710, undenatured ethyl alcohol. The United States imposes a 2.5 percent ad valorem tariff and 54 cents per gallon specific duty on imported ethanol. Since tariff data from TRAINS does not reflect a specific duty, we calculated the ad valorem equivalent of the 54 cents/gallon, amounting to a roughly 15 %, and added it to the bound, applied and effective rates for NAFTA.

Source: TRAINS (accessed through the WITS on September 25, 2011)

**Table 3. Trade with Other Core and Candidate Countries: NAFTA (2010)**

**3.1 Imports of SETA Products from the Core and Candidate Countries (mill. US\$)**

HS Code		Core Countries								
		EU 27	Chile	Colom- bia	Peru	Australia	New Zealand	Singa- pore	Japan	Korea
Products categorized as 'renewable energy' only from the WTO (2011)										
3907		Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms								
1	390799	187,3	0,0	0,0	0,0	0,0	0,0	0,4	53,2	12,2
4016		Other articles of vulcanised rubber other than hard rubber								
2	401699	293,0	0,6	0,2	0,2	4,4	0,7	3,9	198,2	67,5
4707		Recovered (waste and scrap) paper or paperboard								
3	470710	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4	470720	0,6	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
5	470730	0,5	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
6	470790	0,3	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
7308		Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel								
7	730820	33,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	33,8
8406		Steam turbines and other vapour turbines								
8	840682	1,0	0,2	0,0	0,0	0,0	0,0	0,0	6,7	0,0
8418		Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15								
9	841861	13,4	0,0	0,0	0,0	0,0	0,1	0,2	4,2	0,6
10	841869	158,2	0,2	2,6	0,0	0,4	0,0	2,2	31,7	36,6
8419		Machinery, plant or laboratory equipment								
11	841919	13,4	0,0	0,0	0,0	0,7	0,0	0,0	26,5	4,8
8479		Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter								
12	847920	5,4	0,0	0,0	1,1	0,0	0,0	0,0	0,0	0,0
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)								
13	848340	1 332,2	0,5	0,1	0,5	4,2	1,2	4,5	313,8	39,7
14	848360	180,7	0,0	0,0	0,0	0,6	0,1	0,2	27,6	11,4
8501		Electric motors and generators (excluding generating sets)								
15	850161	65,2	0,0	0,0	0,0	0,2	0,0	0,2	5,4	0,5
16	850162	9,3	0,0	0,0	0,0	0,1	0,1	0,0	18,3	0,0
17	850163	8,3	0,0	0,0	0,0	0,0	0,0	0,0	0,3	0,0
18	850164	183,0	0,0	0,0	0,0	1,0	0,0	0,0	128,4	11,4
8502		Electric generating sets and rotary converters								
19	850231	1 991,7	0,0	0,0	0,0	0,1	0,0	0,0	0,3	8,2
20	850239	84,8	0,0	0,0	0,0	0,0	0,0	0,0	333,7	0,4
8506		Primary cells and primary batteries								
21	850610	30,7	0,0	0,6	0,0	0,0	0,0	4,9	4,6	2,1
22	850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,1	0,0
23	850640	2,2	0,0	0,0	0,0	0,0	0,0	0,0	8,4	0,0
24	850650	47,1	0,0	0,0	0,0	0,1	0,1	0,4	87,0	49,2

HS Code		Core Countries								
		EU 27	Chile	Colom-bia	Peru	Australia	New Zealand	Singa-pore	Japan	Korea
25	850660	25,5	0,0	0,0	0,0	0,0	0,0	0,0	0,7	0,1
26	850690	5,1	0,0	0,0	0,0	0,0	0,0	0,0	3,6	1,0
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)								
27	850720	60,9	0,0	0,0	0,0	0,1	0,0	0,3	10,2	4,3
28	850740	1,0	0,0	0,0	0,0	0,0	0,2	0,1	2,6	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17								
29	853710	1 087,1	0,2	0,5	0,0	7,6	2,3	277,8	453,3	127,3
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals								
30	854140	331,5	0,1	0,0	0,0	1,1	1,5	83,6	1 065,4	69,2
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked								
31	900190	102,5	0,0	0,0	0,0	0,8	0,0	47,1	78,7	16,5
9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked								
32	900290	74,6	0,0	0,0	0,0	0,2	0,1	16,6	43,1	1,1
Other Products										
2207		Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat								
33	220710	2,5	0,2	0,0	0,0	5,1	0,0	0,0	0,0	0,0
3824		Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included								
34	382490	833,2	1,1	2,5	1,2	9,6	0,9	2,9	182,2	21,8
8410		Hydraulic turbines, water wheels, and regulators therefor								
35	841011	2,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
36	841090	25,0	0,0	0,0	0,0	0,0	0,0	0,0	3,9	11,2
8411		Turbo-jets, turbo-propellers and other gas turbines								
37	841181	120,0	0,0	0,0	0,0	0,0	0,0	0,0	0,9	0,0
38	841182	81,2	0,0	0,0	0,0	0,0	0,0	0,2	5,9	0,0
8503		Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02								
39	850300	524,4	0,0	0,0	0,0	4,9	0,0	39,1	151,0	19,8
Total Imports		7 918,2	3,1	6,5	2,9	41,2	7,2	484,4	3 249,7	550,6



HS Code	Candidate Countries					
	Brazil	China	India	Indonesia	Turkey	South Africa
Products categorized as 'renewable energy' only from the WTO (2011)						
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyl resins, polyallyl esters and other polyesters, in primary forms					
1 390799	2,6	26,2	1,0	0,0	1,4	0,0
4016	Other articles of vulcanised rubber other than hard rubber					
2 401699	5,9	360,1	20,7	8,5	1,5	0,5
4707	Recovered (waste and scrap) paper or paperboard					
3 470710	0,0	0,0	0,0	0,0	0,0	0,0
4 470720	0,0	0,0	0,0	0,0	0,0	0,0
5 470730	0,0	0,0	0,0	0,0	0,0	0,0
6 470790	0,0	0,0	0,0	0,0	0,0	0,0
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel					
7 730820	0,4	134,4	16,7	20,8	0,2	0,0
8406	Steam turbines and other vapour turbines					
8 840682	3,9	4,4	0,0	0,0	0,0	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15					
9 841861	0,0	25,8	0,2	0,0	0,0	0,0
10 841869	7,9	229,9	2,7	0,7	0,0	1,8
8419	Machinery, plant or laboratory equipment					
11 841919	0,0	26,0	0,1	0,0	0,1	0,2
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter					
12 847920	0,0	0,5	0,6	0,0	0,2	0,0
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)					
13 848340	8,6	278,8	38,1	0,3	2,1	4,1
14 848360	1,9	28,0	4,6	0,0	9,3	0,3
8501	Electric motors and generators (excluding generating sets)					
15 850161	2,5	35,6	3,6	0,0	0,0	0,1
16 850162	0,3	7,8	9,4	0,0	0,0	0,0
17 850163	1,7	0,5	0,0	0,0	0,0	0,0
18 850164	11,5	23,8	5,3	0,0	0,0	0,2
8502	Electric generating sets and rotary converters					
19 850231	25,3	18,1	140,5	0,0	0,0	0,0
20 850239	14,7	15,4	0,2	0,0	0,0	0,0
8506	Primary cells and primary batteries					
21 850610	0,0	205,2	0,1	53,8	0,0	2,1
22 850630	0,0	1,3	0,0	0,0	0,0	0,0
23 850640	0,0	2,4	0,0	0,0	0,0	0,0
24 850650	0,0	63,8	0,1	12,1	0,0	0,0
25 850660	0,0	1,1	0,0	0,1	0,0	0,0
26 850690	0,0	4,4	0,0	0,0	0,0	0,0
8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27 850720	0,0	385,9	13,5	0,0	0,0	0,2

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
28	850740	0,0	2,2	0,0	0,0	0,0	0,0
	8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29	853710	19,0	985,2	64,8	22,2	0,7	1,5
	8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30	854140	0,4	1 905,2	45,8	8,0	0,3	0,2
	9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked					
31	900190	0,1	103,8	0,6	0,0	0,0	0,0
	9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked					
32	900290	0,0	30,9	1,3	0,0	0,0	0,0
Other Products							
	2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat					
33	220710	281,6	0,1	0,0	0,0	0,0	26,3
	3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included					
34	382490	10,2	260,7	16,9	6,7	1,2	2,4
	8410	Hydraulic turbines, water wheels, and regulators therefor					
35	841011	0,0	0,1	0,0	0,0	0,0	0,0
36	841090	26,0	19,8	0,1	0,0	0,0	0,1
	8411	Turbo-jets, turbo-propellers and other gas turbines					
37	841181	0,5	0,0	0,0	1,2	0,0	0,0
38	841182	0,0	0,0	0,0	0,0	0,0	0,0
	8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02					
39	850300	94,9	343,0	66,9	10,0	0,5	4,0
Total Imports		519,9	5 530,4	453,8	144,4	17,7	43,9

### 3.2 Exports of SETA Products to the Core and Candidate Countries (mill. US\$)

HS Code		Core Countries								
		EU 27	Chile	Colom-bia	Peru	Austra-lia	New Zealand	Singa-pore	Japan	Korea
Products categorized as 'renewable energy' only from the WTO (2011)										
3907		Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms								
1	390799	168,3	2,8	3,5	1,3	3,7	0,6	9,7	81,6	32,5
4016		Other articles of vulcanised rubber other than hard rubber								
2	401699	80,6	6,1	4,4	1,7	8,8	0,6	6,8	8,6	2,6
4707		Recovered (waste and scrap) paper or paperboard								
3	470710	19,1	14,5	4,9	2,1	0,2	0,0	0,0	3,7	53,5
4	470720	22,2	5,3	5,5	1,2	0,8	0,0	0,1	5,2	9,4
5	470730	2,1	0,6	0,7	0,2	0,2	0,0	0,0	0,3	35,3
6	470790	26,2	4,1	10,7	3,0	0,0	0,0	0,1	8,1	93,7
7308		Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel								
7	730820	2,4	0,1	0,1	0,5	2,7	0,5	0,7	0,1	0,1
8406		Steam turbines and other vapour turbines								
8	840682	9,3	0,1	3,0	0,0	1,5	1,2	1,2	4,9	7,3
8418		Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15								
9	841861	3,8	0,0	0,3	0,1	1,1	0,2	0,2	0,1	0,8
10	841869	75,0	4,9	13,9	5,3	38,8	3,1	15,0	16,7	22,8
8419		Machinery, plant or laboratory equipment								
11	841919	10,2	0,4	1,3	0,6	0,3	0,1	0,0	0,7	0,9
8479		Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter								
12	847920	2,1	0,0	1,0	0,3	0,6	0,0	0,3	0,3	0,3
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)								
13	848340	171,7	18,4	9,8	10,8	28,6	1,3	27,3	17,1	29,0
14	848360	45,2	4,6	2,2	2,5	4,8	0,2	6,4	7,8	1,9
8501		Electric motors and generators (excluding generating sets)								
15	850161	26,4	0,3	1,1	0,8	1,1	0,0	1,5	0,7	0,1
16	850162	97,9	0,1	1,2	1,3	0,3	0,0	0,8	0,7	0,3
17	850163	2,0	0,4	1,3	1,4	0,4	0,0	0,3	0,0	0,0
18	850164	97,6	0,5	1,6	0,4	6,9	0,0	15,2	0,3	14,3
8502		Electric generating sets and rotary converters								
19	850231	8,5	0,0	0,0	0,0	126,7	0,0	0,0	0,0	2,2
20	850239	90,7	0,2	5,2	8,4	0,0	0,0	0,5	1,4	78,7
8506		Primary cells and primary batteries								
21	850610	24,7	2,4	2,1	0,4	4,5	0,4	19,6	2,3	0,4
22	850630	0,0	0,1	0,0	0,0	0,1	0,0	0,4	0,0	0,0
23	850640	5,6	0,0	0,1	0,0	0,3	0,0	0,5	0,0	0,4
24	850650	111,9	0,6	2,9	0,6	8,5	0,3	12,8	11,1	2,7
25	850660	4,6	0,1	0,0	0,0	0,5	0,1	0,2	0,1	0,1
26	850690	11,0	0,2	0,7	0,3	0,4	0,1	7,5	1,9	4,2

HS Code		Core Countries								
		EU 27	Chile	Colom- bia	Peru	Austra- lia	New Zealand	Singa- pore	Japan	Korea
8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)									
27	850720	138,6	5,1	2,8	2,3	15,7	2,5	16,3	9,3	11,0
28	850740	0,2	0,0	0,1	0,0	0,3	0,0	0,0	0,3	0,0
8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17									
29	853710	493,8	15,2	17,8	6,7	55,8	4,5	72,3	38,8	65,1
8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals									
30	854140	1 270,3	2,3	0,9	0,6	10,9	1,1	178,6	222,7	70,5
9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked									
31	900190	146,1	0,2	2,5	0,1	6,8	0,3	10,2	149,3	179,4
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked									
32	900290	59,8	0,3	0,1	0,1	0,6	0,1	5,1	11,8	7,6
Other Products										
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat									
33	220710	120,3	2,0	0,0	0,1	4,0	0,0	7,8	0,1	12,2
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included									
34	382490	753,7	39,5	31,2	41,1	50,8	4,9	141,8	155,6	87,8
8410	Hydraulic turbines, water wheels, and regulators therefor									
35	841011	2,8	0,4	0,1	0,0	0,0	0,0	0,0	0,0	0,1
36	841090	8,8	4,1	0,2	0,5	1,3	0,1	0,1	0,2	1,9
8411	Turbo-jets, turbo-propellers and other gas turbines									
37	841181	144,7	2,5	1,9	1,2	4,7	0,2	18,5	14,7	1,5
38	841182	699,7	18,4	15,4	0,0	83,5	13,7	45,3	171,3	35,3
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02									
39	850300	165,6	23,0	13,7	7,0	19,2	0,7	22,1	43,3	47,0
Total Exports		5 123,3	179,6	164,1	103,1	495,0	36,8	645,0	990,6	912,4

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
Products categorized as 'renewable energy' only from the WTO (2011)							
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms						
1	390799	19,0	65,1	5,4	0,5	0,3	0,3
4016	Other articles of vulcanised rubber other than hard rubber						
2	401699	18,0	15,7	6,5	0,8	1,4	3,4
4707	Recovered (waste and scrap) paper or paperboard						
3	470710	1,6	768,6	128,0	21,6	3,0	
4	470720	0,2	256,3	42,0	2,7	0,4	0,0
5	470730	0,5	463,2	16,1	27,5	0,3	0,0
6	470790	0,0	442,7	62,7	17,6	0,6	0,3
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel						
7	730820	0,4	0,3	0,2	0,4	0,0	0,2
8406	Steam turbines and other vapour turbines						
8	840682	0,1	6,7	2,3	1,0	0,3	0,3
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15						
9	841861	7,6	1,8	0,3	0,2	0,8	0,1
10	841869	43,2	39,4	15,3	6,3	13,1	5,9
8419	Machinery, plant or laboratory equipment						
11	841919	0,9	8,3	0,2	0,1	0,2	0,3
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter						
12	847920	3,2	4,9	0,1	0,0	0,0	0,0
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)						
13	848340	98,6	59,6	12,3	2,2	1,9	6,1
14	848360	10,2	11,8	4,6	0,6	1,1	1,9
8501	Electric motors and generators (excluding generating sets)						
15	850161	2,3	3,9	0,4	0,1	0,7	0,1
16	850162	8,3	12,2	0,0	0,0	0,5	0,8
17	850163	5,8	0,4	0,0	0,0	0,1	0,0
18	850164	0,5	4,0	16,1	0,8	26,0	0,3
8502	Electric generating sets and rotary converters						
19	850231	0,0	0,0	0,0	0,0	0,0	0,0
20	850239	31,3	90,0	7,2	21,4	7,4	0,1
8506	Primary cells and primary batteries						
21	850610	3,9	11,0	0,1	0,0	0,0	0,3
22	850630	0,0	0,2	0,0	0,0	0,0	0,0
23	850640	0,5	0,0	0,0	0,0	0,0	0,2
24	850650	4,4	10,0	1,2	0,8	0,1	0,2
25	850660	0,2	0,0	0,0	0,0	0,0	0,0
26	850690	0,7	2,3	0,1	0,1	0,1	0,0
8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)						
27	850720	6,1	16,1	4,2	0,7	1,4	11,5

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
28	850740	0,0	0,0	0,0	0,0	0,0	0,0
	8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29	853710	95,0	169,4	36,7	5,9	10,7	17,1
	8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30	854140	9,6	140,4	53,1	0,4	1,3	4,4
	9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked					
31	900190	2,0	281,1	3,3	0,5	0,8	0,5
	9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked					
32	900290	0,9	4,9	0,9	0,2	0,2	0,1
Other Products							
	2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat					
33	220710	9,0	0,3	16,1	0,0	0,5	0,7
	3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included					
34	382490	109,3	309,0	80,5	27,3	12,0	15,7
	8410	Hydraulic turbines, water wheels, and regulators therefor					
35	841011	0,3	0,0	0,2	0,1	0,0	0,0
36	841090	0,9	0,1	0,5	0,0	0,2	0,1
	8411	Turbo-jets, turbo-propellers and other gas turbines					
37	841181	0,9	9,5	0,3	1,4	0,1	0,4
38	841182	34,2	177,9	275,4	31,5	24,0	0,0
	8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02					
39	850300	35,8	42,2	17,4	6,6	9,1	13,0
Total Exports		564,9	3 429,2	809,8	179,2	118,6	84,3

Source: UN COMTRADE (accessed through the WITS on October 1, 2011)



**Table 3. Trade with Other Core and Candidate Countries: EU 27 (2010)**

**3.1 Imports of SETA Products from the Core and Candidate Countries (mill. US\$)**

HS Code	Core Countries								
	NAFTA	Chile	Colom-bia	Peru	Austra-lia	New Zealand	Singa-pore	Ja-pan	Korea
Products categorized as 'renewable energy' only from the WTO (2011)									
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms								
1 390799	158,3	0,0	0,0	0,0	0,1	0,0	0,2	26,6	20,1
4016	Other articles of vulcanised rubber other than hard rubber								
2 401699	138,2	0,0	0,0	0,0	0,9	0,5	5,1	115,2	39,4
4707	Recovered (waste and scrap) paper or paperboard								
3 470710	6,3	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4 470720	18,6	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
5 470730	22,7	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
6 470790	16,8	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel								
7 730820	1,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	16,8
8406	Steam turbines and other vapour turbines								
8 840682	6,9	0,0	0,0	0,0	0,0	0,0	0,0	3,1	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15								
9 841861	9,4	0,0	0,0	0,0	0,0	0,0	1,0	16,9	1,0
10 841869	69,3	0,0	0,0	0,0	0,6	0,0	0,8	18,3	6,6
8419	Machinery, plant or laboratory equipment								
11 841919	11,0	0,0	0,0	0,0	8,4	0,1	0,0	0,7	0,1
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter								
12 847920	0,8	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)								
13 848340	225,4	0,6	0,0	0,0	1,6	0,1	1,2	193,0	7,6
14 848360	63,0	0,0	0,0	0,0	0,6	0,1	1,2	39,2	6,1
8501	Electric motors and generators (excluding generating sets)								
15 850161	55,7	0,4	0,0	0,0	0,0	0,0	0,0	4,2	1,9
16 850162	30,8	0,0	0,1	0,0	0,2	0,5	0,1	0,2	0,1
17 850163	7,8	0,0	0,1	0,0	0,0	0,1	0,1	1,7	0,0
18 850164	68,3	0,0	0,0	0,0	0,0	0,0	0,0	0,5	14,2
8502	Electric generating sets and rotary converters								
19 850231	7,9	0,0	0,0	0,0	0,1	0,0	0,0	0,2	0,0
20 850239	88,8	0,0	0,0	0,0	1,2	0,0	0,0	0,5	4,1
8506	Primary cells and primary batteries								
21 850610	20,9	0,0	0,0	0,0	0,0	0,0	7,8	7,4	1,7
22 850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,2	0,0
23 850640	2,4	0,0	0,0	0,0	0,0	0,0	0,1	3,2	0,0
24 850650	130,9	0,0	0,0	0,0	1,2	0,2	3,8	55,1	16,6

HS Code		Core Countries								
		NAFTA	Chile	Colom-bia	Peru	Austra-lia	New Zealand	Singa-pore	Ja-pan	Korea
25	850660	6,6	0,0	0,0	0,0	0,0	0,0	0,2	0,8	0,4
26	850690	9,2	0,0	0,0	0,0	0,0	0,0	0,1	1,4	0,2
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)								
27	850720	115,5	0,0	0,0	0,0	0,0	0,0	1,9	1,7	3,1
28	850740	0,5	0,0	0,0	0,0	0,0	0,0	0,0	0,4	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17								
29	853710	593,0	0,3	0,0	0,0	36,3	9,2	17,8	332,3	104,5
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals								
30	854140	1 587,6	0,0	0,0	0,0	21,3	0,1	37,3	1 934,6	1 190,9
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked								
31	900190	154,7	0,0	0,0	0,0	0,1	0,0	27,7	86,4	143,0
9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked								
32	900290	41,8	0,1	0,0	0,0	0,2	0,0	6,7	31,5	4,1
Other Products										
2207		Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat								
33	220710	26,9	0,0	0,0	5,6	0,0	0,0	0,0	0,0	6,9
3824		Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included								
34	382490	725,3	0,1	10,6	0,0	4,2	0,2	13,7	145,2	13,3
8410		Hydraulic turbines, water wheels, and regulators therefor								
35	841011	0,3	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
36	841090	7,1	0,0	0,0	0,0	0,0	0,0	0,2	0,1	2,8
8411		Turbo-jets, turbo-propellers and other gas turbines								
37	841181	311,7	0,0	0,0	0,0	3,0	0,0	1,9	1,5	0,1
38	841182	576,3	0,0	1,6	0,6	5,2	0,0	2,5	18,0	0,0
8503		Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02								
39	850300	173,0	0,0	0,0	0,0	0,6	0,2	3,3	112,7	23,0
Total Imports		5 490,7	1,5	12,3	6,2	85,6	11,3	134,6	3 152,5	1 628,3

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
Products categorized as 'renewable energy' only from the WTO (2011)							
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms						
1	390799	0,9	10,3	3,2	0,0	26,6	0,1
4016	Other articles of vulcanised rubber other than hard rubber						
2	401699	10,2	199,6	54,8	2,8	125,2	3,0
4707	Recovered (waste and scrap) paper or paperboard						
3	470710	0,0	0,1	0,0	0,0	0,1	0,0
4	470720	0,5	0,0	0,0	0,0	0,0	0,0
5	470730	0,0	0,0	0,0	0,0	0,3	0,0
6	470790	0,0	0,0	0,0	0,0	0,5	0,0
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel						
7	730820	0,0	42,0	2,7	4,4	8,4	0,9
8406	Steam turbines and other vapour turbines						
8	840682	8,5	0,0	0,2	0,0	0,0	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15						
9	841861	0,0	53,3	0,1	0,3	1,2	1,3
10	841869	0,0	116,3	2,1	0,0	3,3	0,0
8419	Machinery, plant or laboratory equipment						
11	841919	0,0	49,9	0,3	0,0	5,1	0,0
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter						
12	847920	0,4	1,2	1,9	0,0	7,3	0,0
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)						
13	848340	2,8	139,9	25,1	0,1	11,3	5,3
14	848360	3,6	34,7	9,3	0,0	2,7	3,7
8501	Electric motors and generators (excluding generating sets)						
15	850161	0,0	10,3	11,1	0,0	1,2	0,4
16	850162	0,0	9,0	1,3	0,0	0,2	0,1
17	850163	0,1	9,5	0,6	0,0	0,1	0,0
18	850164	2,1	56,3	6,9	0,0	0,5	0,0
8502	Electric generating sets and rotary converters						
19	850231	1,6	7,9	6,3	0,0	0,0	0,0
20	850239	0,4	11,4	0,1	0,0	0,4	0,0
8506	Primary cells and primary batteries						
21	850610	0,1	145,7	0,4	8,9	0,0	0,0
22	850630	0,0	1,6	0,0	0,0	0,0	0,0
23	850640	0,0	1,7	0,0	0,0	0,0	0,0
24	850650	0,0	46,5	0,1	11,3	0,6	0,0
25	850660	0,0	13,2	0,0	0,1	0,0	0,0
26	850690	0,0	1,9	0,2	0,1	0,0	0,1

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27	850720	0,9	328,5	8,6	0,2	0,6	2,1
28	850740	0,0	3,0	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29	853710	16,1	342,5	12,1	12,0	13,1	5,1
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30	854140	0,1	16 210,6	477,8	12,2	11,8	156,0
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked					
31	900190	0,1	58,8	1,9	0,4	0,3	0,0
9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked					
32	900290	0,0	22,0	0,6	0,1	0,2	0,2
		Other Products					
2207		Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat					
33	220710	105,1	0,0	0,0	0,0	9,6	0,0
3824		Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included					
34	382490	127,5	153,5	41,7	268,4	16,3	12,2
8410		Hydraulic turbines, water wheels, and regulators therefor					
35	841011	0,1	1,0	0,1	0,6	0,0	0,0
36	841090	10,9	7,0	9,6	0,0	0,9	0,0
8411		Turbo-jets, turbo-propellers and other gas turbines					
37	841181	0,1	0,2	0,2	0,0	1,1	0,1
38	841182	16,0	23,7	6,8	0,0	4,9	0,0
8503		Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02					
39	850300	29,6	283,1	48,4	4,0	74,4	8,0
Total Imports		337,5	18 395,9	734,2	325,8	327,8	198,7

### 3.2 Exports of SETA Products to the Core and Candidate Countries (mill. US\$)

HS Code		Core Countries								
		NAFTA	Chile	Colombia	Peru	Australia	New Zealand	Singapore	Japan	Korea
Products categorized as 'renewable energy' only from the WTO (2011)										
3907		Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms								
1	390799	146,4	1,0	2,7	0,5	4,8	1,3	6,2	26,9	9,3
4016		Other articles of vulcanised rubber other than hard rubber								
2	401699	311,5	4,7	3,5	2,5	24,1	1,6	24,9	34,7	35,0
4707		Recovered (waste and scrap) paper or paperboard								
3	470710	0,8	0,0	0,1	0,1	0,0	0,0	1,7	0,4	2,2
4	470720	0,3	0,1	0,0	0,5	0,0	0,0	0,0	0,0	2,1
5	470730	1,1	0,4	0,0	0,0	0,1	0,0	0,7	0,0	8,5
6	470790	1,7	0,2	0,0	0,0	0,0	0,0	2,0	0,0	5,1
7308		Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel								
7	730820	16,2	0,2	0,0	0,4	0,8	0,0	0,0	0,0	1,0
8406		Steam turbines and other vapour turbines								
8	840682	4,4	5,5	4,8	0,0	29,6	0,0	0,0	0,0	13,9
8418		Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15								
9	841861	25,2	0,6	0,0	0,1	12,1	1,4	2,4	4,2	1,6
10	841869	101,7	4,5	1,3	0,9	22,1	2,9	7,8	12,4	16,4
8419		Machinery, plant or laboratory equipment								
11	841919	30,5	1,6	0,0	0,0	1,6	0,4	2,9	1,1	1,0
8479		Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter								
12	847920	12,8	2,0	1,5	0,7	3,6	0,0	0,7	1,0	0,0
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)								
13	848340	1 066,9	23,5	9,2	8,2	92,5	10,2	61,9	62,3	198,0
14	848360	145,0	4,2	2,3	1,3	17,7	0,9	10,4	35,6	30,3
8501		Electric motors and generators (excluding generating sets)								
15	850161	51,7	0,5	0,1	0,1	3,7	0,5	6,1	0,9	1,3
16	850162	19,6	0,3	0,0	0,0	0,8	0,1	4,6	0,9	2,5
17	850163	34,1	0,1	0,0	0,0	0,7	0,3	2,2	0,1	2,7
18	850164	239,6	15,5	11,5	1,1	8,5	0,2	22,7	7,9	51,2
8502		Electric generating sets and rotary converters								
19	850231	1 206,4	0,0	0,0	0,0	26,0	32,5	0,0	25,1	0,0
20	850239	60,6	5,5	0,1	45,4	7,1	0,1	0,5	0,9	17,9
8506		Primary cells and primary batteries								
21	850610	23,3	0,0	1,5	0,0	4,8	0,2	0,2	0,2	0,0
22	850630	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
23	850640	2,6	0,0	0,0	1,3	0,0	0,0	0,2	0,0	0,0
24	850650	48,5	0,2	0,5	0,2	1,7	0,2	12,8	2,0	1,8
25	850660	22,6	0,0	0,0	0,0	1,8	0,5	2,8	3,5	1,2
26	850690	5,8	0,0	0,5	0,0	0,1	0,0	0,2	0,1	0,2

HS Code		Core Countries								
		NAFTA	Chile	Colombia	Peru	Australia	New Zealand	Singapore	Japan	Korea
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)								
27	850720	48,0	5,1	1,6	5,1	13,4	0,8	10,7	6,8	2,6
28	850740	2,1	0,0	0,0	0,0	0,1	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17								
29	853710	1 025,4	25,4	12,4	5,7	61,7	4,8	94,6	95,6	161,8
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals								
30	854140	257,9	0,9	0,2	0,2	36,6	0,5	15,7	97,5	155,3
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked								
31	900190	132,0	0,0	0,1	0,0	1,9	0,1	3,3	24,2	7,4
9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked								
32	900290	74,5	0,2	0,1	0,0	1,3	0,2	3,7	8,3	4,9
Other Products										
2207		Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat								
33	220710	7,2	0,4	0,1	0,1	0,1	0,1	0,9	0,4	0,4
3824		Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included								
34	382490	839,2	40,8	18,6	12,0	117,9	15,0	76,3	172,2	207,4
8410		Hydraulic turbines, water wheels, and regulators therefor								
35	841011	1,9	0,6	0,0	0,0	0,2	0,0	0,1	0,2	0,3
36	841090	21,9	14,5	0,0	1,3	6,8	0,8	2,1	0,0	9,1
8411		Turbo-jets, turbo-propellers and other gas turbines								
37	841181	167,9	0,0	6,5	0,0	22,0	0,5	17,1	3,5	5,8
38	841182	235,7	0,0	0,9	12,5	10,5	4,2	36,6	3,0	66,6
8503		Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02								
39	850300	746,1	18,9	2,7	17,8	55,1	10,3	14,8	39,2	56,9
Total Exports		7 139,2	176,8	82,4	117,7	591,6	90,3	449,3	670,8	1 081,3



HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
Products categorized as 'renewable energy' only from the WTO (2011)							
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms						
1	390799	30,5	81,6	18,4	3,0	67,5	12,3
4016	Other articles of vulcanised rubber other than hard rubber						
2	401699	67,1	233,8	41,5	4,8	81,8	46,1
4707	Recovered (waste and scrap) paper or paperboard						
3	470710	0,1	583,3	38,2	63,8	7,1	0,0
4	470720	0,0	12,4	9,8	2,9	1,0	0,0
5	470730	0,0	97,3	38,9	46,0	2,4	0,3
6	470790	0,0	176,2	38,2	37,1	5,3	0,1
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel						
7	730820	8,1	0,6	0,5	0,1	15,8	0,8
8406	Steam turbines and other vapour turbines						
8	840682	8,0	45,3	1,1	0,1	10,8	0,1
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15						
9	841861	0,8	14,3	3,3	0,4	21,3	18,8
10	841869	16,2	33,9	22,4	6,1	37,7	13,8
8419	Machinery, plant or laboratory equipment						
11	841919	0,4	7,4	2,6	2,0	7,4	1,5
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter						
12	847920	3,0	6,0	5,9	1,2	7,3	9,9
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)						
13	848340	179,6	807,7	244,2	18,9	108,0	67,2
14	848360	18,2	130,5	35,0	5,0	17,1	14,3
8501	Electric motors and generators (excluding generating sets)						
15	850161	0,4	10,3	5,1	0,3	8,1	2,1
16	850162	1,8	2,5	1,3	0,0	8,2	0,9
17	850163	0,1	1,2	2,4	0,1	6,1	1,8
18	850164	4,6	73,3	35,5	3,2	44,8	1,2
8502	Electric generating sets and rotary converters						
19	850231	51,5	5,7	0,1	0,0	187,9	1,2
20	850239	1,0	33,5	33,3	16,0	90,5	0,2
8506	Primary cells and primary batteries						
21	850610	6,3	1,0	1,1	0,2	10,5	4,3
22	850630	0,0	0,0	0,0	0,0	0,1	0,0
23	850640	0,0	0,1	0,0	0,0	0,0	0,1
24	850650	4,3	3,6	0,9	0,4	0,9	0,9
25	850660	0,8	0,5	0,1	0,0	1,3	0,4
26	850690	0,0	2,2	0,0	0,0	0,1	0,0
8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)						
27	850720	8,1	21,8	1,8	2,1	23,6	9,8
28	850740	0,0	0,0	0,0	0,0	0,0	0,0

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29	853710	136,4	1 518,1	149,1	24,1	169,7	94,8
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30	854140	13,7	230,8	82,6	1,8	14,1	50,8
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked					
31	900190	1,8	15,3	2,9	0,3	6,4	1,1
9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked					
32	900290	1,6	6,6	1,5	0,0	1,6	0,9
Other Products							
2207		Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat					
33	220710	0,4	2,0	1,4	0,5	0,6	0,1
3824		Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included					
34	382490	201,3	329,2	113,1	38,2	317,7	65,7
8410		Hydraulic turbines, water wheels, and regulators therefor					
35	841011	0,0	3,9	0,0	0,0	2,8	0,1
36	841090	19,6	21,0	33,5	9,0	49,2	0,1
8411		Turbo-jets, turbo-propellers and other gas turbines					
37	841181	6,5	14,4	3,0	3,9	3,3	7,9
38	841182	34,2	95,7	84,9	11,0	141,1	19,4
8503		Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02					
39	850300	149,7	368,7	116,0	13,1	135,0	29,9
Total Exports		975,9	4 991,3	1 169,2	315,3	1 613,7	478,4

Source: UN COMTRADE (accessed through the WITS on October 1, 2011)

**Table 3. Trade with Other Core and Candidate Countries: Chile (2009)<sup>a</sup>**

**3.1 Imports of SETA Products from the Core and Candidate Countries (mill. US\$)**

HS Code		Core Countries								
		NAFTA	EU27	Colom- bia	Peru	Australia	New Zealand	Singa- pore	Japan	Korea
Products categorized as 'renewable energy' only from the WTO (2011)										
3907		Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms								
1	390799	1,1	1,5	0,4	0,0	0,0	0,0	0,0	0,0	0,2
4016		Other articles of vulcanised rubber other than hard rubber								
2	401699	7,2	6,1	0,0	0,1	0,0	0,1	0,0	1,0	0,2
4707		Recovered (waste and scrap) paper or paperboard								
3	470710	2,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4	470720	7,9	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
5	470730	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
6	470790	9,4	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
7308		Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel								
7	730820	0,1	2,4	0,0	0,0	0,0	0,0	0,0	0,0	1,2
8406		Steam turbines and other vapour turbines								
8	840682	0,5	3,5	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8418		Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15								
9	841861	0,1	2,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0
10	841869	5,9	7,2	0,0	0,0	0,0	0,0	0,0	0,1	2,6
8419		Machinery, plant or laboratory equipment								
11	841919	6,9	1,1	0,0	0,0	0,0	0,0	0,0	0,3	0,0
8479		Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter								
12	847920	0,0	2,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)								
13	848340	33,1	29,7	0,0	0,1	5,5	0,0	0,0	3,0	0,4
14	848360	5,1	4,9	0,0	0,0	0,0	0,0	0,0	0,0	0,2
8501		Electric motors and generators (excluding generating sets)								
15	850161	0,1	0,6	0,0	0,0	0,0	0,0	0,0	0,0	0,0
16	850162	0,5	0,5	0,0	0,0	0,0	0,0	0,0	0,0	0,0
17	850163	0,2	0,3	0,0	0,0	0,0	0,0	0,0	0,0	0,0
18	850164	3,6	10,1	0,0	0,0	0,0	0,0	0,0	0,0	0,6
8502		Electric generating sets and rotary converters								
19	850231	19,6	65,4	0,0	0,0	0,0	0,0	0,0	0,0	5,5
20	850239	44,2	3,4	0,0	0,0	0,0	0,0	0,0	78,5	31,0
8506		Primary cells and primary batteries								
21	850610	11,1	0,1	0,0	0,0	0,0	0,0	1,1	0,0	0,0
22	850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
23	850640	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,3	0,0
24	850650	0,3	0,1	0,0	0,0	0,0	0,0	0,1	0,2	0,0
25	850660	0,1	0,3	0,0	0,0	0,0	0,0	0,0	0,0	0,0

HS Code		Core Countries								
		NAFTA	EU27	Colombia	Peru	Australia	New Zealand	Singapore	Japan	Korea
26	850690	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)								
27	850720	4,7	6,5	0,0	0,0	0,0	0,0	0,0	0,0	0,1
28	850740	0,3	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17								
29	853710	14,6	22,5	0,0	0,0	0,1	0,0	0,0	1,1	6,4
	8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals								
30	854140	2,1	1,5	0,0	0,0	0,0	0,0	0,0	0,6	0,0
	9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked								
31	900190	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked								
32	900290	0,0	0,4	0,0	0,0	0,0	0,0	0,0	0,1	0,0
Other Products										
	2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat								
33	220710	0,1	0,3	0,0	0,3	0,0	0,0	0,0	0,0	0,0
	3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included								
34	382490	51,8	32,2	1,1	0,3	1,7	0,0	1,4	0,2	0,6
	8410	Hydraulic turbines, water wheels, and regulators therefor								
35	841011	0,1	0,5	0,0	0,0	0,0	0,0	0,0	0,0	0,0
36	841090	3,6	1,9	0,0	0,0	0,0	0,0	0,0	0,1	0,0
	8411	Turbo-jets, turbo-propellers and other gas turbines								
37	841181	0,5	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
38	841182	9,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02								
39	850300	17,8	72,4	0,0	0,0	0,3	0,0	0,0	0,3	0,1
Total Imports		263,9	279,2	1,5	0,8	7,6	0,1	2,6	85,6	48,8

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
Products categorized as 'renewable energy' only from the WTO (2011)							
	3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms					
1	390799	1,4	0,3	0,0	0,0	0,0	0,0
	4016	Other articles of vulcanised rubber other than hard rubber					
2	401699	0,6	1,3	0,1	0,0	0,1	0,1
	4707	Recovered (waste and scrap) paper or paperboard					
3	470710	0,0	0,0	0,0	0,0	0,0	0,0
4	470720	0,0	0,0	0,0	0,0	0,0	0,0
5	470730	0,0	0,0	0,0	0,0	0,0	0,0
6	470790	0,0	0,0	0,0	0,0	0,0	0,0

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
7308		Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel					
7	730820	17,7	0,7	0,0	0,0	0,0	0,0
8406		Steam turbines and other vapour turbines					
8	840682	1,9	0,0	0,0	0,0	0,0	0,0
8418		Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15					
9	841861	0,2	0,3	0,0	0,0	0,0	0,0
10	841869	0,7	2,1	0,0	0,0	0,0	0,0
8419		Machinery, plant or laboratory equipment					
11	841919	0,1	1,9	0,0	0,0	0,0	0,0
8479		Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter					
12	847920	0,0	0,0	0,0	0,0	0,0	0,0
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)					
13	848340	2,4	1,6	0,1	0,0	0,0	0,3
14	848360	0,4	0,2	0,0	0,0	0,0	0,1
8501		Electric motors and generators (excluding generating sets)					
15	850161	0,0	0,2	0,0	0,0	0,0	0,0
16	850162	0,0	0,0	0,0	0,0	0,0	0,0
17	850163	0,0	0,0	0,0	0,0	0,0	0,0
18	850164	1,2	0,0	0,0	0,0	0,0	0,0
8502		Electric generating sets and rotary converters					
19	850231	0,0	30,5	0,0	0,0	0,0	0,0
20	850239	3,9	5,0	0,3	5,6	0,0	0,0
8506		Primary cells and primary batteries					
21	850610	0,0	0,2	0,0	1,1	0,0	0,0
22	850630	0,0	0,0	0,0	0,0	0,0	0,0
23	850640	0,0	0,0	0,0	0,0	0,0	0,0
24	850650	0,0	0,1	0,0	0,0	0,0	0,0
25	850660	0,0	0,1	0,0	0,0	0,0	0,0
26	850690	0,0	0,0	0,0	0,0	0,0	0,0
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27	850720	0,7	2,6	0,1	0,4	0,0	0,0
28	850740	0,0	0,1	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29	853710	5,9	1,8	0,0	0,2	0,0	0,0
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30	854140	0,2	1,9	0,0	0,0	0,0	0,0
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked					
31	900190	0,0	0,0	0,0	0,0	0,0	0,0

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked						
32	900290	0,0	0,2	0,0	0,0	0,0	0,0
Other Products							
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat						
33	220710	1,1	0,0	0,0	0,0	0,0	0,0
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included						
34	382490	6,9	6,7	0,7	0,1	0,0	1,7
8410	Hydraulic turbines, water wheels, and regulators therefor						
35	841011	0,0	0,0	0,0	0,0	0,0	0,0
36	841090	8,7	1,3	0,0	0,0	0,0	0,0
8411	Turbo-jets, turbo-propellers and other gas turbines						
37	841181	0,0	0,0	0,0	0,0	0,0	0,0
38	841182	0,0	0,0	0,0	0,0	0,0	0,0
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02						
39	850300	9,9	0,5	0,0	0,0	0,0	0,0
Total Imports		63,7	59,5	1,3	7,4	0,1	2,2

### 3.2 Exports of SEFTA Products to the Core and Candidate Countries (mill. US\$)

HS Code		Core Countries								
		NAFTA	EU27	Colom-bia	Peru	Australia	New Zealand	Singa-pore	Japan	Korea
Products categorized as 'renewable energy' only from the WTO (2011)										
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms									
1	390799	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4016	Other articles of vulcanised rubber other than hard rubber									
2	401699	0,1	0,0	0,1	0,9	0,0	0,0	0,0	0,0	0,0
4707	Recovered (waste and scrap) paper or paperboard									
3	470710	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4	470720	0,0	0,0	0,0	0,3	0,0	0,0	0,0	0,0	0,0
5	470730	0,0	0,0	0,0	0,0	0,0	0,0	0,4	0,0	0,0
6	470790	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,1
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel									
7	730820	0,0	0,0	0,0	1,0	0,0	0,0	0,0	0,0	0,0
8406	Steam turbines and other vapour turbines									
8	840682	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15									
9	841861	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
10	841869	0,0	0,1	0,2	0,7	0,0	0,0	0,0	0,0	0,0
8419	Machinery, plant or laboratory equipment									
11	841919	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0



HS Code		Core Countries								
		NAFTA	EU27	Colom- bia	Peru	Australia	New Zealand	Singa- pore	Japan	Korea
8479		Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter								
12	847920	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)								
13	848340	0,6	0,2	0,2	4,2	0,0	0,0	0,0	0,0	0,0
14	848360	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8501		Electric motors and generators (excluding generating sets)								
15	850161	0,0	0,0	0,4	0,1	0,0	0,0	0,0	0,0	0,0
16	850162	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
17	850163	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
18	850164	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8502		Electric generating sets and rotary converters								
19	850231	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
20	850239	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8506		Primary cells and primary batteries								
21	850610	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
22	850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
23	850640	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
24	850650	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
25	850660	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
26	850690	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)								
27	850720	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
28	850740	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17								
29	853710	0,4	0,3	0,1	0,1	0,0	0,0	0,0	0,0	0,0
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals								
30	854140	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked								
31	900190	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked								
32	900290	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Other Products										
2207		Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat								
33	220710	0,7	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
3824		Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included								
34	382490	1,1	0,4	0,2	3,8	0,0	0,0	0,0	0,0	0,0
8410		Hydraulic turbines, water wheels, and regulators therefor								
35	841011	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
36	841090	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

HS Code	Core Countries								
	NAFTA	EU27	Colom-bia	Peru	Australia	New Zealand	Singa-pore	Japan	Korea
8411	Turbo-jets, turbo-propellers and other gas turbines								
37 841181	1,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
38 841182	4,5	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02								
39 850300	0,5	0,0	0,0	0,4	0,0	0,0	0,0	0,0	0,0
Total Exports	9,3	0,9	1,1	11,3	0,0	0,0	0,4	0,0	0,1

HS Code	Candidate Countries						
	Brazil	China	India	Indonesia	Turkey	South Africa	
Products categorized as 'renewable energy' only from the WTO (2011)							
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms						
1 390799	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4016	Other articles of vulcanised rubber other than hard rubber						
2 401699	0,1	0,0	0,0	0,0	0,0	0,0	0,1
4707	Recovered (waste and scrap) paper or paperboard						
3 470710	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4 470720	0,0	0,0	0,0	0,0	0,0	0,0	0,0
5 470730	0,0	0,0	0,0	0,0	0,0	0,0	0,0
6 470790	0,0	0,0	0,0	0,0	0,0	0,0	0,0
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel						
7 730820	0,5	0,0	0,0	0,0	0,0	0,0	0,0
8406	Steam turbines and other vapour turbines						
8 840682	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15						
9 841861	0,0	0,0	0,0	0,0	0,0	0,0	0,0
10 841869	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8419	Machinery, plant or laboratory equipment						
11 841919	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter						
12 847920	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)						
13 848340	0,1	0,0	0,0	0,0	0,0	0,0	0,1
14 848360	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8501	Electric motors and generators (excluding generating sets)						
15 850161	0,0	0,0	0,0	0,0	0,0	0,0	0,0
16 850162	0,0	0,0	0,0	0,0	0,0	0,0	0,0
17 850163	0,0	0,0	0,0	0,0	0,0	0,0	0,0
18 850164	0,1	0,0	0,0	0,0	0,0	0,0	0,0
8502	Electric generating sets and rotary converters						
19 850231	0,0	0,0	0,0	0,0	0,0	0,0	0,0
20 850239	0,0	0,0	0,0	0,0	0,0	0,0	0,0

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
8506		Primary cells and primary batteries					
21	850610	0,0	0,0	0,0	0,0	0,0	0,0
22	850630	0,0	0,0	0,0	0,0	0,0	0,0
23	850640	0,0	0,0	0,0	0,0	0,0	0,0
24	850650	0,0	0,0	0,0	0,0	0,0	0,0
25	850660	0,0	0,0	0,0	0,0	0,0	0,0
26	850690	0,0	0,0	0,0	0,0	0,0	0,0
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27	850720	0,0	0,0	0,0	0,0	0,0	0,0
28	850740	0,0	0,0	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29	853710	0,0	0,0	0,0	0,0	0,0	0,0
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30	854140	0,0	0,0	0,0	0,0	0,0	0,0
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked					
31	900190	0,0	0,0	0,0	0,0	0,0	0,0
9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked					
32	900290	0,0	0,0	0,0	0,0	0,0	0,0
		Other Products					
2207		Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat					
33	220710	0,0	0,0	0,0	0,0	0,0	0,0
3824		Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included					
34	382490	1,8	0,2	0,0	0,0	0,0	0,1
8410		Hydraulic turbines, water wheels, and regulators therefor					
35	841011	0,0	0,0	0,0	0,0	0,0	0,0
36	841090	0,0	0,0	0,0	0,0	0,0	0,0
8411		Turbo-jets, turbo-propellers and other gas turbines					
37	841181	0,0	0,0	0,0	0,0	0,0	0,0
38	841182	0,0	0,0	0,0	0,0	0,0	0,0
8503		Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02					
39	850300	0,0	0,1	0,0	0,0	0,0	0,0
Total Exports		2,5	0,3	0,0	0,0	0,0	0,3

Note:

a. Imports and exports are from 2009.

Source: UN COMTRADE (accessed through the WITS on October 1, 2011)

**Table 3. Trade with Other Core and Candidate Countries: Colombia (2010)**

**3.1 Imports of SETA Products from the Core and Candidate Countries (mill. US\$)**

HS Code	Core Countries								
	NAFTA	EU27	Chile	Peru	Australia	New Zealand	Singapore	Japan	Korea
Products categorized as 'renewable energy' only from the WTO (2011)									
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms								
1 390799	3,3	4,4	0,1	0,0	0,0	0,0	0,0	0,0	0,1
4016	Other articles of vulcanised rubber other than hard rubber								
2 401699	14,6	4,4	0,1	0,3	0,0	0,0	0,3	0,7	1,1
4707	Recovered (waste and scrap) paper or paperboard								
3 470710	3,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4 470720	19,3	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
5 470730	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
6 470790	0,3	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel								
7 730820	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8406	Steam turbines and other vapour turbines								
8 840682	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15								
9 841861	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
10 841869	11,8	5,4	0,1	0,0	0,0	0,0	0,0	0,1	1,0
8419	Machinery, plant or laboratory equipment								
11 841919	0,5	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter								
12 847920	0,5	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)								
13 848340	15,1	12,5	0,2	0,0	0,0	0,0	0,0	1,5	0,3
14 848360	6,5	3,0	0,1	0,2	0,2	0,0	0,1	0,5	0,2
8501	Electric motors and generators (excluding generating sets)								
15 850161	2,9	0,4	0,0	0,0	0,0	0,0	0,0	0,0	0,1
16 850162	0,8	0,4	0,0	0,0	0,0	0,0	0,0	0,0	0,0
17 850163	1,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
18 850164	1,8	0,7	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8502	Electric generating sets and rotary converters								
19 850231	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
20 850239	0,1	3,7	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8506	Primary cells and primary batteries								
21 850610	2,1	1,1	0,0	0,0	0,0	0,0	1,0	0,0	0,1
22 850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
23 850640	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,1	0,0
24 850650	1,2	0,7	0,0	0,0	0,0	0,0	0,0	0,1	0,0
25 850660	0,2	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0
26 850690	0,1	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0

HS Code		Core Countries								
		NAFTA	EU27	Chile	Peru	Australia	New Zealand	Singapore	Japan	Korea
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)								
27	850720	4,3	1,9	0,0	0,0	0,0	0,0	0,0	0,0	0,0
28	850740	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17								
29	853710	16,7	4,9	0,0	0,0	0,1	0,0	0,6	0,3	0,6
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals								
30	854140	2,4	1,2	0,0	0,0	0,0	0,0	0,0	0,2	0,0
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked								
31	900190	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked								
32	900290	1,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
		Other Products								
2207		Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat								
33	220710	0,0	0,1	0,0	12,2	0,0	0,0	0,0	0,0	0,0
3824		Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included								
34	382490	53,7	29,1	0,2	0,1	0,0	0,0	0,2	0,3	0,0
8410		Hydraulic turbines, water wheels, and regulators therefor								
35	841011	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
36	841090	0,3	3,5	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8411		Turbo-jets, turbo-propellers and other gas turbines								
37	841181	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
38	841182	15,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8503		Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02								
39	850300	10,3	2,5	0,0	0,0	0,0	0,0	0,8	0,5	0,0
Total Imports		189,1	79,9	0,7	12,8	0,3	0,0	2,8	4,1	3,4

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
Products categorized as 'renewable energy' only from the WTO (2011)							
3907		Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms					
1	390799	5,9	0,7	0,0	0,0	0,0	0,0
4016		Other articles of vulcanised rubber other than hard rubber					
2	401699	1,2	2,6	0,4	0,0	0,1	0,0
4707		Recovered (waste and scrap) paper or paperboard					
3	470710	0,0	0,0	0,0	0,0	0,0	0,0
4	470720	0,0	0,0	0,0	0,0	0,0	0,0
5	470730	0,0	0,0	0,0	0,0	0,0	0,0
6	470790	0,0	0,0	0,0	0,0	0,0	0,0
7308		Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel					
7	730820	0,0	0,1	0,0	0,0	0,0	0,0

HS Code	Candidate Countries					
	Brazil	China	India	Indonesia	Turkey	South Africa
8406	Steam turbines and other vapour turbines					
8 840682	0,0	0,0	0,0	0,0	0,0	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15					
9 841861	0,0	0,1	0,0	0,0	0,0	0,0
10 841869	1,3	1,7	0,0	0,0	0,0	0,0
8419	Machinery, plant or laboratory equipment					
11 841919	0,0	0,1	0,0	0,0	0,0	0,0
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter					
12 847920	0,1	0,0	0,0	0,0	0,0	0,0
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)					
13 848340	4,8	1,0	0,1	0,0	0,0	0,0
14 848360	0,4	0,3	0,1	0,0	0,0	0,0
8501	Electric motors and generators (excluding generating sets)					
15 850161	0,0	0,7	0,0	0,0	0,0	0,0
16 850162	0,0	0,2	0,0	0,0	0,0	0,0
17 850163	0,0	0,0	0,0	0,0	0,0	0,0
18 850164	0,2	0,4	0,0	0,0	0,0	0,0
8502	Electric generating sets and rotary converters					
19 850231	0,0	0,0	0,0	0,0	0,0	0,0
20 850239	4,5	0,0	0,0	0,0	0,0	0,0
8506	Primary cells and primary batteries					
21 850610	0,0	5,5	0,0	2,5	0,0	0,0
22 850630	0,0	0,0	0,0	0,0	0,0	0,0
23 850640	0,0	0,0	0,0	0,0	0,0	0,0
24 850650	0,0	0,3	0,0	0,0	0,0	0,0
25 850660	0,0	0,0	0,0	0,0	0,0	0,0
26 850690	0,0	0,3	0,0	0,0	0,0	0,0
8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27 850720	0,0	9,1	0,3	0,0	0,0	0,0
28 850740	0,0	0,0	0,0	0,0	0,0	0,0
8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29 853710	1,8	1,3	0,0	0,1	0,0	0,0
8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30 854140	0,0	4,6	0,0	0,1	0,0	0,0
9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked					
31 900190	0,0	0,0	0,0	0,0	0,0	0,0
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked					
32 900290	0,0	0,1	0,0	0,0	0,0	0,0

HS Code	Candidate Countries					
	Brazil	China	India	Indonesia	Turkey	South Africa
Other Products						
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat					
33 220710	0,0	0,0	0,0	0,0	0,0	0,0
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included					
34 382490	6,0	5,7	27,5	0,0	0,0	0,0
8410	Hydraulic turbines, water wheels, and regulators therefor					
35 841011	0,0	0,0	0,0	0,0	0,0	0,0
36 841090	3,0	0,0	0,0	0,0	0,0	0,0
8411	Turbo-jets, turbo-propellers and other gas turbines					
37 841181	0,0	0,0	0,0	0,0	0,0	0,0
38 841182	0,0	0,0	0,0	0,0	0,0	0,0
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02					
39 850300	3,1	0,5	0,0	0,0	0,0	0,0
Total Imports	32,0	35,1	28,2	2,7	0,1	0,0

### 3.2 Exports of SETA Products to the Core and Candidate Countries (mill. US\$)

HS Code	Core Countries								
	NAFTA	EU27	Chile	Peru	Australia	New Zealand	Singapore	Japan	Korea
Products categorized as 'renewable energy' only from the WTO (2011)									
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms								
1 390799	0,0	0,0	0,5	0,5	0,0	0,0	0,0	0,0	0,0
4016	Other articles of vulcanised rubber other than hard rubber								
2 401699	0,3	0,0	0,0	0,2	0,0	0,0	0,0	0,0	0,0
4707	Recovered (waste and scrap) paper or paperboard								
3 470710	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4 470720	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
5 470730	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
6 470790	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel								
7 730820	0,0	0,0	0,0	8,7	0,0	0,0	0,0	0,0	0,0
8406	Steam turbines and other vapour turbines								
8 840682	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15								
9 841861	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
10 841869	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8419	Machinery, plant or laboratory equipment								
11 841919	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter								
12 847920	0,0	0,0	0,0	0,9	0,0	0,0	0,0	0,0	0,0



HS Code		Core Countries								
		NAFTA	EU27	Chile	Peru	Australia	New Zealand	Singapore	Japan	Korea
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)								
13	848340	0,5	0,3	0,0	0,0	0,0	0,0	0,0	0,0	0,0
14	848360	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8501		Electric motors and generators (excluding generating sets)								
15	850161	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
16	850162	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
17	850163	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
18	850164	0,5	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8502		Electric generating sets and rotary converters								
19	850231	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
20	850239	8,9	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8506		Primary cells and primary batteries								
21	850610	0,6	0,0	0,6	2,3	0,0	0,0	0,0	0,0	0,0
22	850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
23	850640	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
24	850650	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
25	850660	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
26	850690	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)								
27	850720	0,0	0,0	0,0	0,1	0,0	0,0	0,0	0,0	0,0
28	850740	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17								
29	853710	0,4	0,0	0,0	0,1	0,0	0,0	0,0	0,0	0,0
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals								
30	854140	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked								
31	900190	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked								
32	900290	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Other Products										
2207		Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat								
33	220710	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
3824		Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included								
34	382490	1,7	6,5	0,2	3,6	0,0	0,0	0,0	0,2	5,5
8410		Hydraulic turbines, water wheels, and regulators therefor								
35	841011	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
36	841090	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8411		Turbo-jets, turbo-propellers and other gas turbines								
37	841181	0,5	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
38	841182	10,3	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

HS Code	Core Countries								
	NAFTA	EU27	Chile	Peru	Australia	New Zealand	Singapore	Japan	Korea
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02								
39 850300	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Total Exports	23,5	6,9	1,2	16,3	0,0	0,0	0,0	0,2	5,5

HS Code	Candidate Countries					
	Brazil	China	India	Indonesia	Turkey	South Africa
Products categorized as 'renewable energy' only from the WTO (2011)						
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms					
1 390799	0,1	0,0	0,0	0,0	0,0	0,0
4016	Other articles of vulcanised rubber other than hard rubber					
2 401699	0,0	0,0	0,0	0,0	0,0	0,0
4707	Recovered (waste and scrap) paper or paperboard					
3 470710	0,0	0,0	0,0	0,0	0,0	0,0
4 470720	0,0	0,0	0,0	0,0	0,0	0,0
5 470730	0,0	0,0	0,0	0,0	0,0	0,0
6 470790	0,0	0,0	0,0	0,0	0,0	0,0
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel					
7 730820	0,0	0,0	0,0	0,0	0,0	0,0
8406	Steam turbines and other vapour turbines					
8 840682	0,0	0,0	0,0	0,0	0,0	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15					
9 841861	0,0	0,0	0,0	0,0	0,0	0,0
10 841869	0,0	0,0	0,0	0,0	0,0	0,0
8419	Machinery, plant or laboratory equipment					
11 841919	0,0	0,0	0,0	0,0	0,0	0,0
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter					
12 847920	0,0	0,0	0,0	0,0	0,0	0,0
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)					
13 848340	0,0	0,0	0,0	0,0	0,0	0,0
14 848360	0,0	0,0	0,0	0,0	0,0	0,0
8501	Electric motors and generators (excluding generating sets)					
15 850161	0,0	0,0	0,0	0,0	0,0	0,0
16 850162	0,0	0,0	0,0	0,0	0,0	0,0
17 850163	0,0	0,0	0,0	0,0	0,0	0,0
18 850164	0,0	0,0	0,0	0,0	0,0	0,0
8502	Electric generating sets and rotary converters					
19 850231	0,0	0,0	0,0	0,0	0,0	0,0
20 850239	0,0	0,0	0,0	0,0	0,0	0,0
8506	Primary cells and primary batteries					
21 850610	0,0	0,0	0,0	0,0	0,0	0,0
22 850630	0,0	0,0	0,0	0,0	0,0	0,0
23 850640	0,0	0,0	0,0	0,0	0,0	0,0

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
24	850650	0,0	0,0	0,0	0,0	0,0	0,0
25	850660	0,0	0,0	0,0	0,0	0,0	0,0
26	850690	0,0	0,0	0,0	0,0	0,0	0,0
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27	850720	0,0	0,0	0,0	0,0	0,0	0,0
28	850740	0,0	0,0	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29	853710	0,0	0,0	0,0	0,0	0,0	0,0
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30	854140	0,0	0,0	0,0	0,0	0,0	0,0
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked					
31	900190	0,0	0,0	0,0	0,0	0,0	0,0
9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked					
32	900290	0,0	0,0	0,0	0,0	0,0	0,0
Other Products							
2207		Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat					
33	220710	0,0	0,0	0,0	0,0	0,0	0,0
3824		Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included					
34	382490	0,1	0,0	0,0	0,4	0,0	0,0
8410		Hydraulic turbines, water wheels, and regulators therefor					
35	841011	0,0	0,0	0,0	0,0	0,0	0,0
36	841090	0,0	0,0	0,0	0,0	0,0	0,0
8411		Turbo-jets, turbo-propellers and other gas turbines					
37	841181	0,0	0,0	0,0	0,0	0,0	0,0
38	841182	0,0	0,0	0,0	0,0	0,0	0,0
8503		Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02					
39	850300	0,0	0,0	0,0	0,0	0,0	0,0
Total Exports		0,1	0,0	0,0	0,4	0,0	0,0

Source: UN COMTRADE (accessed through the WITS on October 1, 2011)

**Table 3. Trade with Other Core and Candidate Countries: Peru (2010)<sup>a</sup>**

**3.1 Imports of SETA Products from the Core and Candidate Countries (mill. US\$)**

HS Code		Core Countries								
		NAFTA	EU27	Chile	Colombia	Australia	New Zealand	Singapore	Japan	Korea
Products categorized as 'renewable energy' only from the WTO (2011)										
3907		Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms								
1	390799	1,3	1,2	0,1	0,6	0,0	0,0	0,0	0,0	0,0
4016		Other articles of vulcanised rubber other than hard rubber								
2	401699	9,1	5,0	0,5	0,2	0,1	0,0	0,3	1,0	0,2
4707		Recovered (waste and scrap) paper or paperboard								
3	470710	0,7	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4	470720	6,9	2,3	1,2	0,0	0,0	0,0	0,0	0,0	0,0
5	470730	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
6	470790	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
7308		Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel								
7	730820	2,1	0,1	1,6	7,2	0,0	0,0	0,0	0,0	0,0
8406		Steam turbines and other vapour turbines								
8	840682	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8418		Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15								
9	841861	0,4	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
10	841869	7,8	2,7	0,6	0,0	0,0	0,0	0,0	0,2	0,2
8419		Machinery, plant or laboratory equipment								
11	841919	0,7	0,1	0,1	0,0	0,0	0,0	0,0	0,0	0,0
8479		Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter								
12	847920	0,2	0,2	0,0	0,4	0,0	0,0	0,0	0,0	0,0
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)								
13	848340	27,9	10,4	0,1	0,0	0,6	0,0	0,0	1,7	0,2
14	848360	4,3	1,8	0,0	0,0	0,0	0,0	0,0	0,1	0,3
8501		Electric motors and generators (excluding generating sets)								
15	850161	0,9	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0
16	850162	1,7	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0
17	850163	1,9	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,2
18	850164	0,9	0,1	0,4	0,0	0,0	0,0	0,0	0,0	0,0
8502		Electric generating sets and rotary converters								
19	850231	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
20	850239	7,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8506		Primary cells and primary batteries								
21	850610	1,2	0,1	0,0	2,3	0,0	0,0	1,1	0,0	0,1
22	850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
23	850640	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,1	0,0
24	850650	0,5	0,1	0,0	0,0	0,0	0,0	0,0	0,1	0,0
25	850660	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

HS Code		Core Countries								
		NAFTA	EU27	Chile	Colombia	Australia	New Zealand	Singapore	Japan	Korea
26	850690	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)								
27	850720	1,7	2,0	0,0	0,1	0,0	0,0	0,0	0,0	0,0
28	850740	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17								
29	853710	22,7	15,7	0,1	8,4	0,2	0,0	0,3	0,5	0,3
	8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals								
30	854140	0,6	0,5	0,0	0,0	0,0	0,0	0,0	0,1	0,2
	9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked								
31	900190	0,1	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked								
32	900290	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,3	0,0
Other Products										
	2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat								
33	220710	0,0	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included								
34	382490	62,6	16,5	8,4	4,3	0,5	0,0	0,0	0,1	0,3
	8410	Hydraulic turbines, water wheels, and regulators therefor								
35	841011	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
36	841090	0,1	0,4	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	8411	Turbo-jets, turbo-propellers and other gas turbines								
37	841181	1,3	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
38	841182	0,0	14,4	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02								
39	850300	2,8	1,7	0,0	0,0	0,0	0,0	0,8	0,4	0,0
Total Imports		167,3	75,4	12,9	23,4	1,3	0,0	2,4	4,5	1,8

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
Products categorized as 'renewable energy' only from the WTO (2011)							
	3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms					
1	390799	2,2	0,3	0,0	0,0	0,0	0,0
	4016	Other articles of vulcanised rubber other than hard rubber					
2	401699	1,4	2,1	0,3	0,0	0,2	0,1
	4707	Recovered (waste and scrap) paper or paperboard					
3	470710	0,0	0,0	0,0	0,0	0,0	0,0
4	470720	0,0	0,0	0,0	0,0	0,0	0,0
5	470730	0,0	0,0	0,0	0,0	0,0	0,0
6	470790	0,0	0,0	0,0	0,0	0,0	0,0

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
7308		Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel					
7	730820	0,3	0,0	8,9	0,0	3,8	0,0
8406		Steam turbines and other vapour turbines					
8	840682	3,5	0,0	0,0	0,0	0,0	0,0
8418		Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15					
9	841861	0,0	0,0	0,0	0,0	0,0	0,0
10	841869	1,1	3,2	0,0	0,0	0,0	0,0
8419		Machinery, plant or laboratory equipment					
11	841919	0,1	0,9	0,0	0,0	0,0	0,0
8479		Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter					
12	847920	0,0	0,1	0,0	0,0	0,0	0,0
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)					
13	848340	3,5	2,8	0,2	0,0	0,0	0,1
14	848360	0,4	0,2	0,0	0,0	0,0	0,0
8501		Electric motors and generators (excluding generating sets)					
15	850161	1,6	1,2	0,2	0,0	0,0	0,0
16	850162	0,1	0,1	0,0	0,0	0,0	0,0
17	850163	0,0	0,2	0,0	0,0	0,0	0,0
18	850164	0,8	1,3	0,0	0,3	0,0	0,0
8502		Electric generating sets and rotary converters					
19	850231	0,0	0,0	0,0	0,0	0,0	0,0
20	850239	0,0	0,2	0,0	0,0	0,0	0,0
8506		Primary cells and primary batteries					
21	850610	0,2	5,0	0,5	1,7	0,0	0,0
22	850630	0,0	0,0	0,0	0,0	0,0	0,0
23	850640	0,0	0,0	0,0	0,0	0,0	0,0
24	850650	0,0	0,1	0,0	0,0	0,0	0,0
25	850660	0,0	0,0	0,0	0,0	0,0	0,0
26	850690	0,0	0,0	0,0	0,1	0,0	0,0
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27	850720	0,1	2,3	0,1	0,0	0,0	0,0
28	850740	0,0	0,1	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29	853710	1,0	1,5	0,4	0,1	0,0	0,0
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30	854140	0,0	4,2	0,0	0,0	0,0	0,0

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked						
31	900190	0,0	0,1	0,0	0,0	0,0	0,0
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked						
32	900290	0,0	0,1	0,0	0,0	0,0	0,0
Other Products							
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat						
33	220710	0,0	0,0	0,0	0,0	0,0	0,0
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included						
34	382490	2,1	4,0	0,3	0,1	0,0	1,0
8410	Hydraulic turbines, water wheels, and regulators therefor						
35	841011	0,0	0,0	0,0	0,0	0,0	0,0
36	841090	0,6	0,3	0,0	0,0	0,0	0,0
8411	Turbo-jets, turbo-propellers and other gas turbines						
37	841181	0,0	0,0	0,0	0,0	0,0	0,0
38	841182	0,0	0,0	0,0	0,0	0,0	0,0
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02						
39	850300	0,7	0,8	0,2	0,0	0,0	0,0
Total Imports		19,4	30,9	10,9	2,3	3,9	1,2

### 3.2 Exports of SETA Products to the Core and Candidate Countries (mill. US\$)

HS Code		Core Countries								
		NAFTA	EU27	Chile	Colom- bia	Austra-lia	New Zealand	Singa- pore	Japan	Korea
Products categorized as 'renewable energy' only from the WTO (2011)										
3907		Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms								
1	390799	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4016		Other articles of vulcanised rubber other than hard rubber								
2	401699	0,0	0,0	0,0	0,1	0,0	0,0	0,0	0,0	0,0
4707		Recovered (waste and scrap) paper or paperboard								
3	470710	0,0	0,0	0,7	0,0	0,0	0,0	0,0	0,0	0,0
4	470720	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
5	470730	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
6	470790	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
7308		Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel								
7	730820	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8406		Steam turbines and other vapour turbines								
8	840682	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8418		Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15								
9	841861	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
10	841869	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8419		Machinery, plant or laboratory equipment								
11	841919	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0



HS Code		Core Countries								
		NAFTA	EU27	Chile	Colom- bia	Australia	New Zealand	Singa- pore	Japan	Korea
8479		Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter								
12	847920	1,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)								
13	848340	0,3	0,2	0,5	0,0	0,0	0,0	0,0	0,0	0,0
14	848360	0,1	0,0	0,0	0,1	0,0	0,0	0,0	0,0	0,0
8501		Electric motors and generators (excluding generating sets)								
15	850161	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
16	850162	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
17	850163	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
18	850164	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8502		Electric generating sets and rotary converters								
19	850231	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
20	850239	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8506		Primary cells and primary batteries								
21	850610	0,0	0,0	0,1	0,0	0,0	0,0	0,0	0,0	0,0
22	850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
23	850640	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
24	850650	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
25	850660	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
26	850690	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)								
27	850720	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
28	850740	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17								
29	853710	0,2	0,1	0,1	0,1	0,0	0,0	0,0	0,0	0,0
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals								
30	854140	0,0	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked								
31	900190	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked								
32	900290	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Other Products										
2207		Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat								
33	220710	0,0	19,5	1,6	10,6	0,0	0,0	0,0	0,0	0,0
3824		Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included								
34	382490	0,5	0,0	0,2	0,3	0,0	0,0	0,0	0,0	0,0
8410		Hydraulic turbines, water wheels, and regulators therefor								
35	841011	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
36	841090	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

HS Code	Core Countries								
	NAFTA	EU27	Chile	Colom-bia	Australia	New Zealand	Singa-pore	Japan	Korea
8411	Turbo-jets, turbo-propellers and other gas turbines								
37 841181	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
38 841182	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02								
39 850300	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Total Exports	2,1	19,9	3,1	11,1	0,0	0,0	0,0	0,0	0,0

  

HS Code	Candidate Countries					
	Brazil	China	India	Indonesia	Turkey	South Africa
Products categorized as 'renewable energy' only from the WTO (2011)						
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms					
1 390799	0,0	0,0	0,0	0,0	0,0	0,0
4016	Other articles of vulcanised rubber other than hard rubber					
2 401699	0,0	0,0	0,0	0,0	0,0	0,0
4707	Recovered (waste and scrap) paper or paperboard					
3 470710	0,0	0,0	0,0	0,0	0,0	0,0
4 470720	0,0	0,0	0,0	0,0	0,0	0,0
5 470730	0,0	0,0	0,0	0,0	0,0	0,0
6 470790	0,0	0,0	0,0	0,0	0,0	0,0
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel					
7 730820	0,0	0,0	0,0	0,0	0,0	0,0
8406	Steam turbines and other vapour turbines					
8 840682	0,0	0,0	0,0	0,0	0,0	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15					
9 841861	0,0	0,0	0,0	0,0	0,0	0,0
10 841869	0,0	0,0	0,0	0,0	0,0	0,0
8419	Machinery, plant or laboratory equipment					
11 841919	0,0	0,0	0,0	0,0	0,0	0,0
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter					
12 847920	0,0	0,0	0,0	0,0	0,0	0,0
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)					
13 848340	0,1	0,0	0,0	0,0	0,0	0,0
14 848360	0,0	0,0	0,0	0,0	0,0	0,0
8501	Electric motors and generators (excluding generating sets)					
15 850161	0,0	0,0	0,0	0,0	0,0	0,0
16 850162	0,0	0,0	0,0	0,0	0,0	0,0
17 850163	0,0	0,0	0,0	0,0	0,0	0,0
18 850164	0,0	0,0	0,0	0,0	0,0	0,0
8502	Electric generating sets and rotary converters					
19 850231	0,0	0,0	0,0	0,0	0,0	0,0
20 850239	0,0	0,0	0,0	0,0	0,0	0,0
8506	Primary cells and primary batteries					
21 850610	0,0	0,0	0,0	0,0	0,0	0,0

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
22	850630	0,0	0,0	0,0	0,0	0,0	0,0
23	850640	0,0	0,0	0,0	0,0	0,0	0,0
24	850650	0,0	0,0	0,0	0,0	0,0	0,0
25	850660	0,0	0,0	0,0	0,0	0,0	0,0
26	850690	0,0	0,0	0,0	0,0	0,0	0,0
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27	850720	0,0	0,0	0,0	0,0	0,0	0,0
28	850740	0,0	0,0	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29	853710	0,0	0,0	0,1	0,0	0,0	0,0
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30	854140	0,0	0,0	0,0	0,0	0,0	0,0
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked					
31	900190	0,0	0,0	0,0	0,0	0,0	0,0
9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked					
32	900290	0,0	0,0	0,0	0,0	0,0	0,0
Other Products							
2207		Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat					
33	220710	0,0	0,0	0,0	0,0	0,0	0,0
3824		Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included					
34	382490	0,1	0,0	0,0	0,0	0,0	0,0
8410		Hydraulic turbines, water wheels, and regulators therefor					
35	841011	0,0	0,0	0,0	0,0	0,0	0,0
36	841090	0,0	0,0	0,0	0,0	0,0	0,0
8411		Turbo-jets, turbo-propellers and other gas turbines					
37	841181	0,0	0,0	0,0	0,0	0,0	0,0
38	841182	0,0	0,0	0,0	0,0	0,0	0,0
8503		Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02					
39	850300	0,0	0,0	0,0	0,0	0,0	0,0
Total Exports		0,2	0,0	0,1	0,0	0,0	0,0

Source: UN COMTRADE (accessed through the WITS on October 1, 2011)

**Table 3. Trade with Other Core and Candidate Countries: Australia (2010)**

**3.1 Imports of SETA Products from the Core and Candidate Countries (mill. US\$)**

HS Code	Core Countries								
	NAFTA	EU27	Chile	Colombia	Peru	New Zealand	Singapore	Japan	Korea
Products categorized as 'renewable energy' only from the WTO (2011)									
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms								
1 390799	4,4	5,0	0,0	0,0	0,0	2,6	1,7	3,1	1,2
4016	Other articles of vulcanised rubber other than hard rubber								
2 401699	32,1	30,7	0,0	0,0	0,0	2,9	2,6	18,0	1,6
4707	Recovered (waste and scrap) paper or paperboard								
3 470710	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4 470720	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
5 470730	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
6 470790	0,1	0,0	0,0	0,0	0,0	0,1	0,0	0,0	0,0
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel								
7 730820	0,2	0,3	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8406	Steam turbines and other vapour turbines								
8 840682	0,8	5,3	0,0	0,0	0,0	0,0	0,0	2,9	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15								
9 841861	2,1	5,9	0,0	0,0	0,0	0,2	0,0	0,4	0,2
10 841869	50,7	31,1	0,0	0,0	0,0	0,2	0,1	3,9	0,2
8419	Machinery, plant or laboratory equipment								
11 841919	0,5	1,7	0,0	0,0	0,0	0,0	0,0	0,4	0,0
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter								
12 847920	0,0	3,4	0,0	0,0	0,0	2,5	0,0	0,0	0,0
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)								
13 848340	65,8	144,7	0,1	0,0	0,0	0,5	1,9	16,0	1,0
14 848360	13,0	22,1	0,0	0,0	0,0	0,0	0,5	12,0	0,8
8501	Electric motors and generators (excluding generating sets)								
15 850161	1,2	4,4	0,0	0,0	0,0	0,1	0,2	0,1	0,0
16 850162	1,4	0,6	0,0	0,0	0,0	0,2	0,0	0,0	0,0
17 850163	0,0	0,5	0,0	0,0	0,0	0,0	0,0	0,0	0,0
18 850164	8,4	28,1	0,0	0,0	0,0	0,0	3,4	0,1	0,0
8502	Electric generating sets and rotary converters								
19 850231	0,0	0,4	0,0	0,0	0,0	0,0	0,8	0,0	0,0
20 850239	30,3	2,9	0,0	0,0	0,0	0,0	0,3	3,1	0,0
8506	Primary cells and primary batteries								
21 850610	17,1	1,6	0,0	0,0	0,0	0,0	6,6	0,6	0,6
22 850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
23 850640	0,3	0,2	0,0	0,0	0,0	0,0	0,0	0,1	0,0
24 850650	11,0	2,3	0,0	0,0	0,0	0,0	3,3	1,2	0,3
25 850660	0,4	3,0	0,0	0,0	0,0	0,0	0,6	0,0	0,2

HS Code		Core Countries								
		NAFTA	EU27	Chile	Colombia	Peru	New Zealand	Singapore	Japan	Korea
26	850690	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)								
27	850720	16,3	21,0	0,0	0,0	0,0	0,0	0,8	0,8	2,1
28	850740	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17								
29	853710	90,7	88,1	0,0	0,0	0,0	8,4	6,9	16,5	0,8
	8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals								
30	854140	24,6	34,6	0,0	0,0	0,0	0,5	18,0	117,9	22,9
	9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked								
31	900190	8,3	3,6	0,0	0,0	0,0	0,2	0,9	3,4	0,6
	9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked								
32	900290	2,5	1,1	0,0	0,0	0,0	0,0	0,4	5,7	0,0
		Other Products								
	2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat								
33	220710	3,8	0,1	0,0	0,0	0,0	0,3	0,0	0,0	0,0
	3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included								
34	382490	66,9	48,0	0,1	0,0	0,0	5,4	8,5	3,7	7,4
	8410	Hydraulic turbines, water wheels, and regulators therefor								
35	841011	0,1	0,4	0,0	0,0	0,0	0,0	0,0	0,0	0,0
36	841090	0,3	6,2	0,0	0,0	0,0	0,1	0,1	2,7	0,0
	8411	Turbo-jets, turbo-propellers and other gas turbines								
37	841181	46,6	6,9	0,0	0,0	0,0	0,2	1,0	0,9	0,0
38	841182	136,7	42,2	0,0	0,0	0,0	0,0	0,0	19,8	0,0
	8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02								
39	850300	19,6	22,6	0,7	0,0	0,0	2,6	0,4	6,0	6,4
Total Imports		656,0	568,7	0,9	0,0	0,0	26,7	58,7	238,9	46,1

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
		Products categorized as 'renewable energy' only from the WTO (2011)					
	3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms					
1	390799	0,0	3,4	0,1	3,3	0,0	4,4
	4016	Other articles of vulcanised rubber other than hard rubber					
2	401699	0,4	31,6	5,8	0,9	0,5	0,4
	4707	Recovered (waste and scrap) paper or paperboard					
3	470710	0,0	0,0	0,0	0,0	0,0	0,0
4	470720	0,0	0,0	0,0	0,0	0,0	0,0
5	470730	0,0	0,0	0,0	0,0	0,0	0,0
6	470790	0,0	0,0	0,0	0,0	0,0	0,0

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
7308		Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel					
7	730820	0,0	15,8	2,1	0,5	0,7	0,0
8406		Steam turbines and other vapour turbines					
8	840682	0,0	0,0	0,0	0,0	0,0	0,0
8418		Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15					
9	841861	0,0	1,7	0,0	0,0	0,0	0,0
10	841869	0,0	35,9	0,1	0,1	0,2	0,5
8419		Machinery, plant or laboratory equipment					
11	841919	0,0	7,4	0,0	1,8	0,2	0,0
8479		Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter					
12	847920	0,0	0,1	0,1	0,0	0,0	0,0
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)					
13	848340	0,3	9,7	3,7	1,6	0,0	1,5
14	848360	0,0	1,9	0,9	0,0	0,0	0,4
8501		Electric motors and generators (excluding generating sets)					
15	850161	0,1	2,0	0,1	0,0	0,0	0,0
16	850162	0,0	0,8	0,4	0,0	0,0	0,0
17	850163	0,0	0,4	0,0	0,0	0,0	0,0
18	850164	0,0	0,3	0,0	0,0	0,0	0,0
8502		Electric generating sets and rotary converters					
19	850231	0,0	18,5	1,8	0,0	0,0	0,0
20	850239	0,0	0,7	0,0	0,0	0,0	0,0
8506		Primary cells and primary batteries					
21	850610	0,0	25,1	0,1	4,9	0,0	0,0
22	850630	0,0	0,0	0,0	0,0	0,0	0,0
23	850640	0,0	0,2	0,0	0,0	0,0	0,0
24	850650	0,0	5,1	0,0	0,6	0,0	0,0
25	850660	0,0	0,0	0,0	0,0	0,0	0,0
26	850690	0,0	0,0	0,0	0,0	0,0	0,0
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27	850720	0,0	46,5	4,7	0,5	0,0	1,2
28	850740	0,0	0,0	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29	853710	0,1	39,9	0,9	0,6	0,0	0,6
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30	854140	0,0	749,1	28,3	0,6	0,0	0,0
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked					
31	900190	0,0	4,8	0,0	0,0	0,0	0,1

HS Code	Candidate Countries					
	Brazil	China	India	Indonesia	Turkey	South Africa
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked					
32 900290	0,0	1,5	0,0	0,0	0,0	0,0
Other Products						
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat					
33 220710	10,1	2,4	0,0	4,3	0,0	0,0
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included					
34 382490	0,0	37,9	0,4	0,9	0,0	0,7
8410	Hydraulic turbines, water wheels, and regulators therefor					
35 841011	0,0	0,0	0,0	0,0	0,0	0,0
36 841090	0,0	0,0	0,0	0,0	0,0	0,0
8411	Turbo-jets, turbo-propellers and other gas turbines					
37 841181	0,0	0,5	0,1	0,0	0,0	0,0
38 841182	0,3	0,0	0,1	0,0	0,0	0,0
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02					
39 850300	1,4	2,7	29,4	0,8	0,0	0,2
Total Imports	12,7	1 045,5	79,0	21,2	1,6	9,9

### 3.2 Exports of SETA Products to the Core and Candidate Countries (mill. US\$)

HS Code	Core Countries								
	NAFTA	EU27	Chile	Colom-bia	Peru	New Zealand	Singa-pore	Japan	Korea
Products categorized as 'renewable energy' only from the WTO (2011)									
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms								
1 390799	0,1	0,1	0,0	0,0	0,0	2,7	0,0	0,0	0,0
4016	Other articles of vulcanised rubber other than hard rubber								
2 401699	5,1	1,6	0,1	0,0	0,0	11,0	0,5	0,1	0,3
4707	Recovered (waste and scrap) paper or paperboard								
3 470710	0,0	0,0	0,0	0,0	0,0	0,0	0,1	0,0	0,3
4 470720	0,0	0,0	0,0	0,0	0,0	0,0	0,1	0,0	3,0
5 470730	0,0	0,0	0,0	0,0	0,0	0,0	0,2	0,0	0,3
6 470790	0,0	0,0	0,0	0,0	0,0	0,0	0,1	0,0	0,5
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel								
7 730820	0,1	0,1	0,0	0,0	0,0	0,9	0,0	0,0	0,0
8406	Steam turbines and other vapour turbines								
8 840682	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15								
9 841861	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
10 841869	0,3	1,2	0,0	0,0	0,0	2,2	0,3	0,0	0,0
8419	Machinery, plant or laboratory equipment								
11 841919	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter								
12 847920	0,2	0,0	0,0	0,0	0,0	0,1	0,2	0,0	0,0



HS Code		Core Countries								
		NAFTA	EU27	Chile	Colom-bia	Peru	New Zealand	Singa-pore	Japan	Korea
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)								
13	848340	7,9	3,9	6,7	0,0	0,8	3,4	0,8	8,5	0,2
14	848360	1,2	0,4	0,0	0,0	0,0	1,4	0,5	0,0	0,0
8501		Electric motors and generators (excluding generating sets)								
15	850161	0,1	0,9	0,0	0,0	0,0	0,4	0,0	0,0	0,0
16	850162	0,1	0,0	0,0	0,0	0,0	0,2	0,3	0,0	0,0
17	850163	0,0	0,8	0,0	0,0	0,0	2,0	0,2	0,0	0,0
18	850164	0,0	0,1	0,0	0,0	0,0	0,6	0,0	0,0	0,0
8502		Electric generating sets and rotary converters								
19	850231	0,0	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0
20	850239	0,2	0,3	0,0	0,0	0,0	0,2	0,0	0,0	0,0
8506		Primary cells and primary batteries								
21	850610	0,0	0,0	0,0	0,0	0,0	1,0	0,1	0,0	0,0
22	850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
23	850640	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
24	850650	0,0	0,2	0,0	0,1	0,0	0,4	0,5	0,0	0,0
25	850660	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
26	850690	0,0	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)								
27	850720	0,1	0,0	0,0	0,0	0,0	9,4	0,1	0,0	0,0
28	850740	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17								
29	853710	7,1	62,8	0,5	0,6	0,0	7,9	3,3	3,1	0,5
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals								
30	854140	1,1	8,2	0,0	0,0	0,0	1,8	0,6	0,2	0,1
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked								
31	900190	0,5	0,3	0,0	0,0	0,0	0,3	0,2	0,0	0,0
9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked								
32	900290	0,4	0,6	0,0	0,0	0,0	3,4	0,1	0,1	0,0
Other Products										
2207		Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat								
33	220710	0,0	0,0	0,0	0,0	0,0	1,0	0,3	0,0	0,0
3824		Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included								
34	382490	1,5	0,7	0,0	0,1	0,0	14,3	2,6	0,7	2,2
8410		Hydraulic turbines, water wheels, and regulators therefor								
35	841011	0,0	0,0	0,0	0,0	0,0	0,1	0,0	0,0	0,0
36	841090	0,4	0,3	0,0	0,0	0,0	0,7	0,0	0,0	0,0
8411		Turbo-jets, turbo-propellers and other gas turbines								
37	841181	1,7	0,4	0,0	0,0	0,0	0,0	0,1	0,0	0,0
38	841182	9,9	0,1	0,0	0,0	0,0	0,6	7,6	12,9	0,0

HS Code	Core Countries								
	NAFTA	EU27	Chile	Colom- bia	Peru	New Zealand	Singa- pore	Japan	Korea
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02								
39 850300	7,2	5,9	1,9	0,0	0,7	1,5	1,6	0,3	0,6
Total Exports	45,2	88,9	9,2	0,8	1,5	67,4	20,1	25,8	7,9

  

HS Code	Candidate Countries					
	Brazil	China	India	Indonesia	Turkey	South Africa
Products categorized as 'renewable energy' only from the WTO (2011)						
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms					
1 390799	0,0	1,3	0,0	0,0	0,0	0,0
4016	Other articles of vulcanised rubber other than hard rubber					
2 401699	0,0	0,9	0,3	1,5	0,0	0,1
4707	Recovered (waste and scrap) paper or paperboard					
3 470710	0,0	37,3	2,3	20,7	0,0	0,0
4 470720	0,0	15,9	5,0	0,3	0,0	0,0
5 470730	0,0	9,6	0,2	15,7	0,0	0,0
6 470790	0,0	72,2	1,7	2,4	0,0	0,0
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel					
7 730820	0,0	0,0	0,0	0,0	0,0	0,0
8406	Steam turbines and other vapour turbines					
8 840682	0,0	0,0	0,0	0,0	0,0	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15					
9 841861	0,0	0,0	0,0	0,1	0,0	0,0
10 841869	0,0	0,3	0,1	0,0	0,0	0,2
8419	Machinery, plant or laboratory equipment					
11 841919	0,0	0,0	0,0	0,0	0,0	0,0
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter					
12 847920	0,0	0,2	0,1	0,0	0,0	0,0
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)					
13 848340	0,5	1,6	3,2	3,0	0,1	2,8
14 848360	0,0	0,3	0,1	0,4	0,0	0,4
8501	Electric motors and generators (excluding generating sets)					
15 850161	0,0	0,2	0,0	0,0	0,0	0,0
16 850162	0,0	0,0	1,4	0,0	0,0	0,0
17 850163	0,0	0,0	0,0	0,0	0,0	0,0
18 850164	0,0	0,1	0,0	0,0	0,0	0,0
8502	Electric generating sets and rotary converters					
19 850231	0,0	0,5	0,0	0,0	0,0	0,0
20 850239	0,0	0,0	0,0	0,0	0,0	0,0
8506	Primary cells and primary batteries					
21 850610	0,0	0,0	0,0	0,0	0,0	0,0
22 850630	0,0	0,0	0,0	0,0	0,0	0,0
23 850640	0,0	0,0	0,0	0,0	0,0	0,0

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
24	850650	0,0	0,0	0,1	0,0	0,0	0,0
25	850660	0,0	0,0	0,0	0,0	0,0	0,0
26	850690	0,0	0,0	0,0	0,0	0,0	0,0
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27	850720	0,0	0,0	0,1	0,0	0,0	0,0
28	850740	0,0	0,0	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29	853710	0,1	13,1	4,6	1,6	0,1	0,8
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30	854140	0,4	0,4	0,2	0,1	0,0	0,0
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked					
31	900190	0,0	1,7	0,0	0,0	0,0	0,0
9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked					
32	900290	0,0	1,7	0,0	0,0	0,0	0,1
Other Products							
2207		Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat					
33	220710	0,0	0,0	0,0	0,0	0,0	0,0
3824		Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included					
34	382490	0,8	1,3	0,5	5,9	0,0	1,0
8410		Hydraulic turbines, water wheels, and regulators therefor					
35	841011	0,0	0,0	0,0	0,0	0,0	0,0
36	841090	0,0	0,0	0,0	0,1	0,0	0,0
8411		Turbo-jets, turbo-propellers and other gas turbines					
37	841181	0,0	0,0	0,0	0,0	0,0	0,0
38	841182	0,0	0,0	0,0	0,0	0,0	0,0
8503		Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02					
39	850300	0,0	0,5	0,6	1,4	0,6	0,0
Total Exports		1,7	158,9	20,3	53,1	0,8	5,3

Source: COMTRADE (accessed through the WITS on October 1, 2011)

**Table 3. Trade with Other Core and Candidate Countries: New Zealand (2010)**

**3.1 Imports of SETA Products from the Core and Candidate Countries (mill. US\$)**

HS Code		Core Countries								
		NAFTA	EU27	Chile	Colombia	Peru	Australia	Singapore	Japan	Korea
Products categorized as 'renewable energy' only from the WTO (2011)										
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms									
1	390799	0,6	1,1	0,0	0,0	0,0	1,1	0,0	0,0	0,0
4016	Other articles of vulcanised rubber other than hard rubber									
2	401699	3,3	4,0	0,1	0,0	0,0	4,0	0,1	1,6	0,2
4707	Recovered (waste and scrap) paper or paperboard									
3	470710	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4	470720	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
5	470730	0,0	0,0	0,0	0,0	0,0	0,1	0,0	0,0	0,0
6	470790	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel									
7	730820	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8406	Steam turbines and other vapour turbines									
8	840682	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15									
9	841861	0,1	0,5	0,0	0,0	0,0	0,1	0,0	0,1	0,0
10	841869	2,1	5,8	0,0	0,0	0,0	2,9	0,0	0,2	0,1
8419	Machinery, plant or laboratory equipment									
11	841919	0,0	0,6	0,0	0,0	0,0	0,2	0,0	0,0	0,0
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter									
12	847920	0,0	0,1	0,0	0,0	0,0	0,5	0,0	0,0	0,0
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)									
13	848340	5,4	13,0	0,0	0,0	0,0	1,6	0,1	1,3	0,2
14	848360	0,7	1,4	0,0	0,0	0,0	0,4	0,0	0,2	0,0
8501	Electric motors and generators (excluding generating sets)									
15	850161	0,0	0,2	0,0	0,0	0,0	0,8	0,0	0,0	0,0
16	850162	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
17	850163	0,1	0,6	0,0	0,0	0,0	0,0	0,0	0,0	0,0
18	850164	0,0	0,4	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8502	Electric generating sets and rotary converters									
19	850231	0,1	10,7	0,0	0,0	0,0	0,1	0,0	0,0	0,0
20	850239	0,4	2,1	0,0	0,0	0,0	0,1	0,0	0,1	0,0
8506	Primary cells and primary batteries									
21	850610	3,1	0,4	0,0	0,0	0,0	0,1	2,1	0,3	0,0
22	850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
23	850640	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
24	850650	1,0	0,3	0,0	0,0	0,0	0,1	0,4	0,1	0,0
25	850660	0,3	0,4	0,0	0,0	0,0	0,0	0,0	0,1	0,1

HS Code		Core Countries								
		NAFTA	EU27	Chile	Colom-bia	Peru	Australia	Singa-pore	Japan	Korea
26	850690	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)								
27	850720	3,1	3,5	0,0	0,0	0,0	1,4	0,2	0,1	7,5
28	850740	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17								
29	853710	6,7	4,1	0,0	0,0	0,0	3,8	0,2	1,7	1,6
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals								
30	854140	1,3	0,7	0,0	0,0	0,0	1,0	0,2	1,4	0,3
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked								
31	900190	7,4	1,7	0,0	0,0	0,0	0,4	0,0	0,1	0,0
9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked								
32	900290	0,1	0,1	0,0	0,0	0,0	0,2	0,0	0,0	0,0
Other Products										
2207		Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat								
33	220710	0,0	0,1	0,0	0,0	0,0	1,2	0,0	0,0	0,0
3824		Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included								
34	382490	9,7	11,2	0,0	0,0	0,0	12,7	1,0	4,2	0,5
8410		Hydraulic turbines, water wheels, and regulators therefor								
35	841011	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
36	841090	0,0	0,2	0,0	0,0	0,0	0,0	0,0	3,5	0,0
8411		Turbo-jets, turbo-propellers and other gas turbines								
37	841181	5,9	0,5	0,0	0,0	0,0	0,1	0,0	0,0	0,0
38	841182	12,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8503		Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02								
39	850300	2,5	9,9	0,0	0,0	0,0	0,8	0,2	8,2	0,0
Total Imports		66,2	73,2	0,1	0,0	0,0	33,4	4,3	23,1	10,5

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
Products categorized as 'renewable energy' only from the WTO (2011)							
3907		Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms					
1	390799	0,0	0,4	0,0	0,0	0,0	0,1
4016		Other articles of vulcanised rubber other than hard rubber					
2	401699	0,0	3,6	0,1	0,1	0,0	0,0
4707		Recovered (waste and scrap) paper or paperboard					
3	470710	0,0	0,0	0,0	0,0	0,0	0,0
4	470720	0,0	0,0	0,0	0,0	0,0	0,0
5	470730	0,0	0,0	0,0	0,0	0,0	0,0
6	470790	0,0	0,1	0,0	0,0	0,0	0,0

HS Code	Candidate Countries					
	Brazil	China	India	Indonesia	Turkey	South Africa
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel					
7	730820	0,0	1,0	0,0	0,0	1,6
8406	Steam turbines and other vapour turbines					
8	840682	0,0	0,0	0,0	0,0	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15					
9	841861	0,0	0,5	0,0	0,0	0,0
10	841869	0,0	2,5	0,0	0,0	0,0
8419	Machinery, plant or laboratory equipment					
11	841919	0,0	0,8	0,0	0,0	0,0
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter					
12	847920	0,0	0,0	0,0	0,0	0,0
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)					
13	848340	0,0	0,9	0,1	0,0	0,0
14	848360	0,0	0,2	0,0	0,0	0,0
8501	Electric motors and generators (excluding generating sets)					
15	850161	0,0	0,1	0,0	0,0	0,0
16	850162	0,0	0,0	0,0	0,0	0,0
17	850163	0,0	0,0	0,0	0,0	0,0
18	850164	0,0	0,0	0,0	0,0	0,0
8502	Electric generating sets and rotary converters					
19	850231	0,0	0,1	0,0	0,0	0,0
20	850239	0,0	0,9	0,0	0,0	0,0
8506	Primary cells and primary batteries					
21	850610	0,0	4,2	0,0	1,8	0,0
22	850630	0,0	0,0	0,0	0,0	0,0
23	850640	0,0	0,0	0,0	0,0	0,0
24	850650	0,0	0,6	0,0	0,1	0,0
25	850660	0,0	0,2	0,0	0,0	0,0
26	850690	0,0	0,0	0,0	0,0	0,0
8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27	850720	0,0	8,0	0,3	0,1	0,0
28	850740	0,0	0,0	0,0	0,0	0,0
8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29	853710	0,0	2,0	0,4	0,0	0,0
8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30	854140	0,0	4,6	0,0	0,0	0,0

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked						
31	900190	0,0	0,5	0,0	0,0	0,0	0,0
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked						
32	900290	0,0	0,1	0,0	0,0	0,0	0,0
Other Products							
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat						
33	220710	2,6	0,0	0,0	0,0	0,0	0,1
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included						
34	382490	0,0	4,2	0,3	0,7	0,0	0,4
8410	Hydraulic turbines, water wheels, and regulators therefor						
35	841011	0,0	0,0	0,0	0,0	0,0	0,0
36	841090	0,0	0,0	0,0	0,0	0,0	0,0
8411	Turbo-jets, turbo-propellers and other gas turbines						
37	841181	0,0	0,0	0,0	0,0	0,0	0,0
38	841182	0,0	0,0	0,0	0,0	0,0	0,0
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02						
39	850300	0,0	0,6	0,2	0,0	0,0	0,0
Total Imports		2,6	35,9	1,3	2,7	0,5	2,2

### 3.2 Exports of SEFTA Products to the Core and Candidate Countries (mill. US\$)

HS Code		Core Countries								
		NAFTA	EU27	Chile	Colom- bia	Peru	Australia	Singa- pore	Japan	Korea
Products categorized as 'renewable energy' only from the WTO (2011)										
3907		Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms								
1	390799	0,3	0,0	0,0	0,0	0,0	0,2	0,0	0,0	0,0
4016		Other articles of vulcanised rubber other than hard rubber								
2	401699	6,5	5,2	0,1	0,0	0,0	3,5	0,0	0,1	0,0
4707		Recovered (waste and scrap) paper or paperboard								
3	470710	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4	470720	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
5	470730	0,0	0,0	0,0	0,0	0,0	0,0	0,4	0,0	0,6
6	470790	0,4	0,0	0,0	0,0	0,0	0,0	0,2	0,0	0,1
7308		Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel								
7	730820	0,0	0,0	0,0	0,0	0,0	0,1	0,0	0,0	0,0
8406		Steam turbines and other vapour turbines								
8	840682	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8418		Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15								
9	841861	0,0	0,0	0,0	0,0	0,0	0,1	0,0	0,0	0,0
10	841869	0,0	0,0	0,0	0,0	0,0	0,3	0,0	0,0	0,0



HS Code		Core Countries								
		NAFTA	EU27	Chile	Colom- bia	Peru	Australia	Singa- pore	Japan	Korea
8419		Machinery, plant or laboratory equipment								
11	841919	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8479		Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter								
12	847920	0,0	0,0	0,0	0,0	0,0	0,9	0,0	0,0	0,0
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)								
13	848340	0,6	4,0	0,0	0,0	0,0	0,5	0,1	0,0	0,0
14	848360	0,0	0,0	0,0	0,0	0,0	0,1	0,0	0,0	0,0
8501		Electric motors and generators (excluding generating sets)								
15	850161	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
16	850162	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
17	850163	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
18	850164	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8502		Electric generating sets and rotary converters								
19	850231	0,0	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0
20	850239	0,0	0,9	0,0	0,0	0,0	0,1	0,0	0,0	0,0
8506		Primary cells and primary batteries								
21	850610	0,0	0,0	0,0	0,0	0,0	0,1	0,0	0,0	0,0
22	850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
23	850640	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
24	850650	0,2	0,2	0,0	0,0	0,0	0,3	0,0	0,0	0,0
25	850660	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
26	850690	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)								
27	850720	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
28	850740	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17								
29	853710	3,5	6,5	0,0	0,0	0,0	6,3	0,1	0,0	0,7
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals								
30	854140	1,6	0,1	0,0	0,0	0,0	0,3	0,0	0,0	0,0
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked								
31	900190	0,2	0,0	0,0	0,0	0,0	0,1	0,0	0,0	0,0
9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked								
32	900290	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
		Other Products								
2207		Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat								
33	220710	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
3824		Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included								
34	382490	0,3	0,1	0,3	0,0	0,0	4,0	0,3	0,1	0,2

HS Code		Core Countries								
		NAFTA	EU27	Chile	Colom- bia	Peru	Australia	Singa- pore	Japan	Korea
8410		Hydraulic turbines, water wheels, and regulators therefor								
35	841011	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
36	841090	0,0	0,0	0,0	0,0	0,0	0,4	0,0	0,0	0,0
8411		Turbo-jets, turbo-propellers and other gas turbines								
37	841181	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
38	841182	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8503		Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02								
39	850300	0,1	0,3	0,0	0,0	0,0	0,5	0,4	0,0	0,0
Total Exports		13,6	17,3	0,4	0,0	0,0	17,6	1,5	0,2	1,6
HS Code		Candidate Countries								
		Brazil	China	India	Indonesia	Turkey	South Africa			
Products categorized as 'renewable energy' only from the WTO (2011)										
3907		Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms								
1	390799	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	
4016		Other articles of vulcanised rubber other than hard rubber								
2	401699	0,0	0,4	0,0	0,0	0,0	0,0	0,0	0,0	
4707		Recovered (waste and scrap) paper or paperboard								
3	470710	0,0	0,4	1,3	3,0	0,0	0,0	0,0		
4	470720	0,0	0,5	4,9	0,5	0,0	0,0			
5	470730	0,0	1,2	0,8	6,4	0,0	0,0			
6	470790	0,0	8,1	2,1	0,8	0,0	0,0			
7308		Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel								
7	730820	0,0	0,0	0,0	0,0	0,0	0,0	0,0		
8406		Steam turbines and other vapour turbines								
8	840682	0,0	0,0	0,0	0,0	0,0	0,0	0,0		
8418		Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15								
9	841861	0,0	0,0	0,0	0,0	0,0	0,0	0,0		
10	841869	0,0	0,0	0,0	0,0	0,0	0,0	0,0		
8419		Machinery, plant or laboratory equipment								
11	841919	0,0	0,0	0,0	0,0	0,0	0,0	0,0		
8479		Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter								
12	847920	0,0	0,0	0,0	0,0	0,0	0,0	0,0		
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)								
13	848340	0,0	0,0	0,0	0,0	0,0	0,0	0,0		
14	848360	0,0	0,8	0,0	0,0	0,0	0,0	0,0		
8501		Electric motors and generators (excluding generating sets)								
15	850161	0,0	0,0	0,0	0,0	0,0	0,0	0,0		
16	850162	0,0	0,0	0,0	0,0	0,0	0,0	0,0		
17	850163	0,0	0,0	0,0	0,0	0,0	0,0	0,0		
18	850164	0,0	0,0	0,0	0,0	0,0	0,0	0,0		
8502		Electric generating sets and rotary converters								
19	850231	0,0	0,0	0,0	0,0	0,0	0,0	0,0		

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
20	850239	0,0	0,0	0,0	0,0	0,0	0,0
	8506	Primary cells and primary batteries					
21	850610	0,0	0,0	0,0	0,0	0,0	0,0
22	850630	0,0	0,0	0,0	0,0	0,0	0,0
23	850640	0,0	0,0	0,0	0,0	0,0	0,0
24	850650	0,1	0,0	0,0	0,0	0,0	0,0
25	850660	0,0	0,0	0,0	0,0	0,0	0,0
26	850690	0,0	0,0	0,0	0,0	0,0	0,0
	8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27	850720	0,0	0,0	0,0	0,0	0,0	0,0
28	850740	0,0	0,0	0,0	0,0	0,0	0,0
	8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29	853710	0,0	0,6	0,0	0,0	0,0	0,1
	8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30	854140	0,0	0,0	0,0	0,0	0,0	0,0
	9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked					
31	900190	0,0	0,0	0,0	0,0	0,0	0,0
	9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked					
32	900290	0,0	0,0	0,0	0,0	0,0	0,0
Other Products							
	2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat					
33	220710	0,0	0,2	0,0	0,0	0,0	0,0
	3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included					
34	382490	0,0	0,0	0,0	0,2	0,0	0,0
	8410	Hydraulic turbines, water wheels, and regulators therefor					
35	841011	0,0	0,0	0,0	0,0	0,0	0,0
36	841090	0,0	0,0	0,0	0,0	0,0	0,0
	8411	Turbo-jets, turbo-propellers and other gas turbines					
37	841181	0,0	0,0	0,0	0,0	0,0	0,0
38	841182	0,0	0,0	0,0	0,0	0,0	0,0
	8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02					
39	850300	0,0	0,0	0,0	0,0	0,0	0,0
Total Exports		0,1	12,0	9,1	10,8	0,0	0,1

Source: UN COMTRADE (accessed through the WITS on October 1, 2011)

**Table 3. Trade with Other Core and Candidate Countries: Singapore (2010)**

**3.1 Imports of SETA Products from the Core and Candidate Countries (mill. US\$)**

HS Code	Core Countries								
	NAFTA	EU27	Chile	Colom-bia	Peru	Australia	New Zealand	Japan	Korea
Products categorized as 'renewable energy' only from the WTO (2011)									
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms								
1 390799	12,1	13,3	0,0	0,0	0,0	0,0	0,3	18,8	3,6
4016	Other articles of vulcanised rubber other than hard rubber								
2 401699	8,2	8,5	0,0	0,0	0,0	0,3	0,2	8,6	0,8
4707	Recovered (waste and scrap) paper or paperboard								
3 470710	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4 470720	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
5 470730	0,0	0,1	0,0	0,0	0,0	0,0	0,1	0,0	0,0
6 470790	0,2	0,7	0,0	0,0	0,0	0,3	0,7	0,0	0,1
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel								
7 730820	0,7	0,1	0,0	0,0	0,0	0,0	0,2	0,1	0,0
8406	Steam turbines and other vapour turbines								
8 840682	12,6	19,5	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15								
9 841861	0,9	0,5	0,0	0,0	0,0	0,0	0,0	0,1	0,0
10 841869	17,8	7,6	0,0	0,0	0,0	1,4	0,0	5,5	1,1
8419	Machinery, plant or laboratory equipment								
11 841919	1,5	0,7	0,0	0,0	0,0	0,4	0,0	0,1	0,0
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter								
12 847920	1,2	1,1	0,0	0,0	0,0	0,0	0,0	0,1	0,2
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)								
13 848340	28,4	47,3	0,0	0,0	0,0	0,1	0,2	16,7	2,3
14 848360	8,2	11,7	0,0	0,0	0,0	0,3	0,0	4,0	0,8
8501	Electric motors and generators (excluding generating sets)								
15 850161	1,0	9,9	0,0	0,0	0,0	0,0	0,0	18,1	0,2
16 850162	5,3	2,1	0,0	0,0	0,0	0,0	0,0	0,2	0,0
17 850163	0,1	0,5	0,0	0,0	0,0	0,1	0,0	0,9	0,0
18 850164	2,6	30,1	0,0	0,0	0,0	0,0	0,0	0,3	0,1
8502	Electric generating sets and rotary converters								
19 850231	0,0	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0
20 850239	34,0	5,2	0,0	0,0	0,0	0,1	0,0	0,9	0,1
8506	Primary cells and primary batteries								
21 850610	43,3	1,0	0,0	0,0	0,0	0,0	0,0	2,1	1,2
22 850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
23 850640	3,9	0,2	0,0	0,0	0,0	0,0	0,0	15,1	0,0
24 850650	34,9	38,8	0,0	0,0	0,0	1,0	0,2	18,4	5,1
25 850660	0,1	1,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0

HS Code		Core Countries								
		NAFTA	EU27	Chile	Colombia	Peru	Australia	New Zealand	Japan	Korea
26	850690	9,1	3,7	0,0	0,0	0,0	0,3	0,0	11,1	0,2
	8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)								
27	850720	17,3	9,5	0,0	0,0	0,0	0,0	0,0	0,9	1,8
28	850740	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17								
29	853710	124,5	115,0	0,0	0,0	0,1	0,3	0,2	18,1	2,2
	8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals								
30	854140	202,8	15,9	0,0	0,0	0,0	0,1	0,0	98,9	10,1
	9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked								
31	900190	25,1	7,0	0,0	0,0	0,0	0,5	0,1	37,1	13,8
	9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked								
32	900290	9,5	11,9	0,0	0,0	0,0	0,6	0,0	11,6	0,9
	Other Products									
	2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat								
33	220710	0,7	7,5	0,0	0,0	0,0	0,6	0,4	0,0	0,0
	3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included								
34	382490	131,2	71,4	0,0	0,0	0,0	3,6	0,0	54,3	5,5
	8410	Hydraulic turbines, water wheels, and regulators therefor								
35	841011	0,1	0,3	0,0	0,0	0,0	0,0	0,0	0,1	0,0
36	841090	0,6	0,8	0,0	0,0	0,0	3,3	0,0	0,1	0,1
	8411	Turbo-jets, turbo-propellers and other gas turbines								
37	841181	30,0	126,6	0,0	0,0	0,0	0,0	3,6	0,1	0,0
38	841182	83,3	50,5	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02								
39	850300	25,1	53,5	0,0	0,0	0,0	0,4	0,4	23,9	1,0
Total Imports		875,8	673,3	0,0	0,0	0,1	13,4	6,5	365,9	51,2

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
Products categorized as 'renewable energy' only from the WTO (2011)							
	3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms					
1	390799	0,0	9,0	4,9	0,5	0,0	0,1
	4016	Other articles of vulcanised rubber other than hard rubber					
2	401699	0,0	16,4	0,3	4,6	0,0	0,0
	4707	Recovered (waste and scrap) paper or paperboard					
3	470710	0,0	0,0	0,0	0,2	0,0	0,0
4	470720	0,0	0,0	0,0	0,0	0,0	0,0
5	470730	0,0	0,0	0,0	0,0	0,0	0,0
6	470790	0,0	0,1	0,0	4,6	0,0	0,0

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
7308		Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel					
7	730820	0,0	2,8	0,0	2,8	0,0	0,0
8406		Steam turbines and other vapour turbines					
8	840682	0,0	3,6	0,0	0,0	0,0	0,0
8418		Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15					
9	841861	0,0	0,1	0,0	0,0	0,0	0,0
10	841869	0,0	24,6	0,3	0,2	0,0	0,0
8419		Machinery, plant or laboratory equipment					
11	841919	0,0	2,3	0,0	0,0	0,1	0,0
8479		Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter					
12	847920	0,0	0,2	0,0	3,6	0,0	0,0
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)					
13	848340	0,2	8,3	0,8	0,3	0,0	0,0
14	848360	0,1	2,9	0,2	3,5	0,0	0,0
8501		Electric motors and generators (excluding generating sets)					
15	850161	0,0	3,0	0,0	6,3	0,0	0,0
16	850162	0,0	2,7	0,0	0,0	0,0	0,0
17	850163	0,0	1,2	0,0	0,0	0,0	0,0
18	850164	0,0	31,3	0,4	0,0	0,0	0,0
8502		Electric generating sets and rotary converters					
19	850231	0,0	0,0	0,0	0,0	0,0	0,0
20	850239	0,0	4,1	0,0	0,0	0,0	0,0
8506		Primary cells and primary batteries					
21	850610	0,0	27,3	0,1	7,0	0,0	0,0
22	850630	0,0	0,0	0,0	0,0	0,0	0,0
23	850640	0,0	0,1	0,0	0,2	0,0	0,0
24	850650	0,0	22,9	0,4	108,2	0,0	0,0
25	850660	0,0	0,1	0,0	0,1	0,0	0,0
26	850690	0,0	4,2	1,7	9,3	0,0	0,0
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27	850720	0,0	42,5	9,9	1,2	0,0	0,5
28	850740	0,0	0,1	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29	853710	0,4	50,6	1,2	40,0	0,2	0,2
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30	854140	0,0	77,4	2,6	6,7	0,0	0,0

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked						
31	900190	0,1	41,5	0,3	0,1	0,0	0,0
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked						
32	900290	0,0	16,7	0,7	0,0	0,0	0,0
Other Products							
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat						
33	220710	18,1	3,3	1,4	1,3	0,0	8,0
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included						
34	382490	0,6	24,5	2,3	1,8	0,0	0,0
8410	Hydraulic turbines, water wheels, and regulators therefor						
35	841011	0,0	0,0	0,0	0,0	0,0	0,0
36	841090	0,0	1,0	0,0	0,7	0,0	0,0
8411	Turbo-jets, turbo-propellers and other gas turbines						
37	841181	0,5	2,0	0,0	6,8	0,0	0,0
38	841182	0,5	0,0	0,0	1,5	0,0	0,0
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02						
39	850300	0,0	30,8	0,1	7,5	0,0	0,1
Total Imports		20,4	457,3	27,4	218,8	0,3	8,8

### 3.2 Exports of SEFTA Products to the Core and Candidate Countries (mill. US\$)

HS Code		Core Countries								
		NAFTA	EU27	Chile	Colombia	Peru	Australia	New Zealand	Japan	Korea
Products categorized as 'renewable energy' only from the WTO (2011)										
3907		Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms								
1	390799	0,6	0,5	0,0	0,0	0,0	1,3	0,1	4,0	0,9
4016		Other articles of vulcanised rubber other than hard rubber								
2	401699	5,2	2,3	0,0	0,1	0,0	0,6	0,1	0,7	1,7
4707		Recovered (waste and scrap) paper or paperboard								
3	470710	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,2
4	470720	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,2
5	470730	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	6,5
6	470790	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
7308		Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel								
7	730820	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8406		Steam turbines and other vapour turbines								
8	840682	0,0	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8418		Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15								
9	841861	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0



HS Code		Core Countries								
		NAFTA	EU27	Chile	Colombia	Peru	Australia	New Zealand	Japan	Korea
10	841869	1,4	0,4	0,0	0,0	0,0	0,6	0,0	0,8	0,1
	8419	Machinery, plant or laboratory equipment								
11	841919	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,1
	8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter								
12	847920	0,3	2,4	0,0	0,0	0,0	0,0	0,0	0,0	0,9
	8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)								
13	848340	5,6	1,6	0,0	0,0	0,0	1,3	0,2	0,7	0,6
14	848360	22,2	0,5	0,0	0,0	0,0	1,0	0,1	0,0	0,1
	8501	Electric motors and generators (excluding generating sets)								
15	850161	0,0	0,1	0,0	0,0	0,0	0,7	0,0	0,1	0,1
16	850162	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
17	850163	0,0	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0
18	850164	2,1	0,0	0,0	0,0	0,0	0,5	0,0	0,0	0,6
	8502	Electric generating sets and rotary converters								
19	850231	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
20	850239	0,0	0,6	0,0	0,0	0,0	30,7	0,2	0,0	0,9
	8506	Primary cells and primary batteries								
21	850610	7,2	8,2	1,7	0,5	1,0	16,2	4,4	1,9	18,6
22	850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
23	850640	0,3	0,6	0,0	0,0	0,0	0,0	0,0	0,0	0,0
24	850650	23,9	35,4	0,0	0,0	0,0	8,6	1,5	5,2	1,9
25	850660	0,2	0,2	0,0	0,0	0,0	0,5	0,0	0,1	0,2
26	850690	3,2	2,1	0,0	0,0	0,0	3,3	0,5	5,1	0,7
	8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)								
27	850720	1,9	2,1	0,0	0,0	0,0	0,7	0,1	0,9	0,3
28	850740	0,0	0,0	0,0	0,0	0,0	0,1	0,0	0,0	0,0
	8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17								
29	853710	33,5	158,3	0,0	0,0	0,0	9,5	0,4	11,6	15,4
	8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals								
30	854140	104,6	233,6	0,0	0,0	0,2	6,5	0,3	102,3	36,3
	9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked								
31	900190	40,8	17,8	0,0	0,5	0,0	1,9	0,2	29,9	1,3
	9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked								
32	900290	61,2	29,2	0,0	0,0	0,0	0,9	0,2	4,4	1,0
		Other Products								
	2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat								
33	220710	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included								
34	382490	2,3	5,5	1,2	0,1	0,0	10,6	0,9	18,5	19,1

HS Code	Core Countries								
	NAFTA	EU27	Chile	Colombia	Peru	Australia	New Zealand	Japan	Korea
8410	Hydraulic turbines, water wheels, and regulators therefor								
35 841011	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
36 841090	0,3	7,6	0,0	0,0	0,0	0,0	0,0	0,0	0,2
8411	Turbo-jets, turbo-propellers and other gas turbines								
37 841181	13,3	1,8	0,0	0,0	0,0	10,3	0,8	0,0	0,0
38 841182	19,3	1,5	0,0	0,0	0,0	1,5	0,0	0,0	7,9
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02								
39 850300	2,2	1,6	0,0	0,9	0,5	0,8	0,2	11,7	1,8
Total Exports	351,3	513,9	2,9	2,1	1,7	107,7	10,0	197,7	117,3

HS Code	Candidate Countries					
	Brazil	China	India	Indonesia	Turkey	South Africa
Products categorized as 'renewable energy' only from the WTO (2011)						
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms					
1 390799	0,0	7,3	7,9	19,2	0,0	0,0
4016	Other articles of vulcanised rubber other than hard rubber					
2 401699	1,1	13,5	0,8	6,7	0,1	0,0
4707	Recovered (waste and scrap) paper or paperboard					
3 470710	0,0	0,1	1,3	58,0	0,0	0,0
4 470720	0,0	0,4	0,5	4,9	0,0	0,0
5 470730	0,0	0,2	1,9	17,3	0,0	0,3
6 470790	0,0	1,6	6,4	15,8	0,0	0,2
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel					
7 730820	0,0	0,0	0,0	0,1	0,0	0,0
8406	Steam turbines and other vapour turbines					
8 840682	0,0	0,0	0,0	14,1	0,0	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15					
9 841861	0,0	0,1	0,0	0,3	0,0	0,0
10 841869	0,0	2,5	0,7	4,9	0,0	0,1
8419	Machinery, plant or laboratory equipment					
11 841919	0,0	0,1	0,0	0,3	0,0	0,0
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter					
12 847920	0,3	1,9	0,0	8,0	0,0	0,0
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)					
13 848340	0,1	10,7	4,4	16,0	0,0	0,1
14 848360	0,0	1,3	0,5	6,5	0,0	0,0
8501	Electric motors and generators (excluding generating sets)					
15 850161	0,0	0,6	0,0	6,1	0,0	0,1
16 850162	0,0	0,3	0,1	3,4	0,0	0,0
17 850163	0,0	0,3	0,0	2,3	0,0	0,0
18 850164	0,0	0,3	0,5	8,4	0,0	0,0

HS Code	Candidate Countries					
	Brazil	China	India	Indonesia	Turkey	South Africa
8502	Electric generating sets and rotary converters					
19 850231	0,0	0,0	0,0	0,0	0,0	0,0
20 850239	2,0	7,1	1,3	8,9	0,0	0,0
8506	Primary cells and primary batteries					
21 850610	4,9	0,4	0,8	8,8	0,2	4,2
22 850630	0,0	0,0	0,0	0,0	0,0	0,0
23 850640	0,0	0,0	0,1	1,0	0,0	0,0
24 850650	0,1	3,1	14,8	63,5	0,0	1,5
25 850660	0,0	0,0	0,5	1,6	0,0	0,0
26 850690	0,8	5,4	1,2	16,6	0,0	0,1
8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27 850720	0,0	1,0	0,8	9,8	0,0	0,1
28 850740	0,0	0,3	0,2	0,3	0,0	0,0
8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29 853710	2,8	30,3	14,1	66,7	0,0	0,2
8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30 854140	0,7	57,3	20,6	43,6	0,0	0,0
9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked					
31 900190	0,0	1,9	0,8	13,0	0,5	0,1
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked					
32 900290	0,1	2,9	3,6	3,3	0,2	0,0
Other Products						
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat					
33 220710	0,0	0,0	0,0	0,0	0,0	0,0
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included					
34 382490	0,5	70,8	12,8	43,7	0,3	1,4
8410	Hydraulic turbines, water wheels, and regulators therefor					
35 841011	0,0	0,3	0,0	0,0	0,0	0,0
36 841090	0,0	0,1	0,1	2,0	0,0	0,1
8411	Turbo-jets, turbo-propellers and other gas turbines					
37 841181	0,0	0,5	0,0	10,5	0,0	0,0
38 841182	0,0	1,0	1,1	27,4	0,0	0,0
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02					
39 850300	0,1	3,5	6,2	57,7	0,1	0,0
Total Exports	13,4	226,6	103,7	570,2	1,3	8,3

Source: UN COMTRADE (accessed through the WITS on October 1, 2011)

**Table 3. Trade with Other Core and Candidate Countries: Japan (2010)**

**3.1 Imports of SETA Products from the Core and Candidate Countries (mill. US\$)**

HS Code		Core Countries								
		NAFTA	EU27	Chile	Colombia	Peru	Australia	New Zealand	Singapore	Korea
Products categorized as 'renewable energy' only from the WTO (2011)										
3907		Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms								
1	390799	85,1	26,9	0,0	0,0	0,0	0,0	0,0	0,5	18,5
4016		Other articles of vulcanised rubber other than hard rubber								
2	401699	17,2	29,2	0,0	0,0	0,0	0,0	0,1	1,2	22,7
4707		Recovered (waste and scrap) paper or paperboard								
3	470710	9,5	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4	470720	6,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
5	470730	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
6	470790	0,5	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
7308		Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel								
7	730820	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	17,0
8406		Steam turbines and other vapour turbines								
8	840682	3,4	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8418		Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15								
9	841861	5,1	4,7	0,0	0,0	0,0	0,0	0,0	0,0	1,1
10	841869	16,7	21,8	0,0	0,0	0,0	0,0	0,0	0,3	2,4
8419		Machinery, plant or laboratory equipment								
11	841919	0,2	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,1
8479		Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter								
12	847920	0,2	1,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)								
13	848340	55,4	90,0	0,0	0,0	0,0	0,2	0,0	1,5	69,7
14	848360	10,9	24,4	0,0	0,0	0,0	0,0	0,0	0,0	2,2
8501		Electric motors and generators (excluding generating sets)								
15	850161	21,8	3,4	0,0	0,0	0,0	0,0	0,4	0,1	0,2
16	850162	0,4	1,8	0,0	0,0	0,0	0,0	0,0	0,0	0,0
17	850163	0,2	5,3	0,0	0,0	0,0	0,0	0,0	0,0	3,5
18	850164	0,0	8,1	0,0	0,0	0,0	0,0	0,0	0,0	10,9
8502		Electric generating sets and rotary converters								
19	850231	0,1	39,6	0,0	0,0	0,0	0,0	0,0	0,0	0,2
20	850239	0,9	1,0	0,0	0,0	0,0	0,1	0,0	0,0	4,7
8506		Primary cells and primary batteries								
21	850610	0,8	0,1	0,0	0,0	0,0	0,0	0,0	0,0	9,6
22	850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
23	850640	0,5	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
24	850650	7,3	1,2	0,0	0,0	0,0	0,0	0,0	0,2	0,5
25	850660	0,1	4,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

HS Code		Core Countries								
		NAFTA	EU27	Chile	Colom-bia	Peru	Australia	New Zealand	Singa-pore	Korea
26	850690	1,8	0,2	0,0	0,0	0,0	0,1	0,0	0,0	0,3
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)								
27	850720	13,0	8,3	0,0	0,0	0,0	0,0	0,0	0,1	3,4
28	850740	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17								
29	853710	103,3	110,0	0,0	0,0	0,0	0,5	0,0	5,4	17,6
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals								
30	854140	145,1	78,4	0,0	0,0	0,0	0,0	0,0	3,4	175,2
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked								
31	900190	119,7	39,0	0,0	0,0	0,0	0,0	0,0	11,5	15,4
9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked								
32	900290	11,0	13,6	0,0	0,0	0,0	0,0	0,0	0,4	0,4
Other Products										
2207		Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat								
33	220710	0,1	0,3	0,0	0,0	0,0	0,0	0,0	0,0	0,0
3824		Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included								
34	382490	294,1	219,9	0,0	0,0	0,0	2,4	0,1	14,6	82,7
8410		Hydraulic turbines, water wheels, and regulators therefor								
35	841011	0,0	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,1
36	841090	0,0	0,9	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8411		Turbo-jets, turbo-propellers and other gas turbines								
37	841181	69,0	40,5	0,0	0,0	0,0	0,0	0,0	0,0	0,0
38	841182	202,1	24,9	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8503		Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02								
39	850300	18,6	44,2	0,0	0,0	0,0	0,0	0,0	1,6	42,8
Total Imports		1 219,8	843,0	0,0	0,0	0,0	3,2	0,6	40,7	500,9

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
Products categorized as 'renewable energy' only from the WTO (2011)							
3907		Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms					
1	390799	0,0	12,9	0,2	0,0	0,0	0,0
4016		Other articles of vulcanised rubber other than hard rubber					
2	401699	0,9	161,9	1,2	11,6	0,1	0,1
4707		Recovered (waste and scrap) paper or paperboard					
3	470710	0,0	0,0	0,0	0,0	0,0	0,0
4	470720	0,0	0,0	0,0	0,0	0,0	0,0
5	470730	0,0	0,0	0,0	0,0	0,0	0,0
6	470790	0,0	0,1	0,0	0,0	0,0	0,0

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
7308		Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel					
7	730820	0,0	7,9	0,0	0,0	0,0	0,0
8406		Steam turbines and other vapour turbines					
8	840682	0,0	0,0	0,0	0,0	0,0	0,0
8418		Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15					
9	841861	0,0	15,4	0,0	0,0	0,0	0,0
10	841869	0,0	16,6	0,0	0,0	0,0	0,0
8419		Machinery, plant or laboratory equipment					
11	841919	0,0	0,4	0,0	0,0	0,0	0,0
8479		Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter					
12	847920	0,0	0,0	0,0	0,0	0,0	0,0
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)					
13	848340	0,1	108,8	2,6	4,5	0,2	0,2
14	848360	0,0	7,1	0,9	0,1	0,0	0,0
8501		Electric motors and generators (excluding generating sets)					
15	850161	0,0	7,0	0,0	0,1	0,0	0,0
16	850162	0,1	3,4	0,0	0,0	0,0	0,0
17	850163	0,0	29,0	0,0	0,0	0,0	0,0
18	850164	1,1	1,4	0,5	0,0	0,0	0,0
8502		Electric generating sets and rotary converters					
19	850231	0,0	0,0	0,0	0,0	0,0	0,0
20	850239	0,0	0,1	0,0	0,0	0,0	0,0
8506		Primary cells and primary batteries					
21	850610	0,0	56,4	0,0	21,3	0,0	0,0
22	850630	0,0	0,0	0,0	0,0	0,0	0,0
23	850640	0,0	0,6	0,0	0,0	0,0	0,0
24	850650	0,0	6,0	0,0	10,8	0,0	0,0
25	850660	0,0	0,1	0,0	0,1	0,0	0,0
26	850690	0,0	2,9	0,0	0,0	0,0	0,0
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27	850720	0,0	19,0	1,0	0,0	0,0	0,0
28	850740	0,0	0,2	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29	853710	0,1	236,0	0,4	0,5	0,0	0,0
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30	854140	0,0	835,4	2,4	48,5	0,0	0,0

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked						
31	900190	0,0	244,8	1,0	7,2	0,0	0,0
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked						
32	900290	0,0	32,7	0,1	0,0	0,0	0,0
Other Products							
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat						
33	220710	285,3	23,1	0,0	13,7	0,0	0,0
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included						
34	382490	0,2	372,1	1,4	32,9	0,3	2,4
8410	Hydraulic turbines, water wheels, and regulators therefor						
35	841011	0,0	0,0	0,0	0,0	0,0	0,0
36	841090	0,0	6,3	0,0	0,0	0,0	0,0
8411	Turbo-jets, turbo-propellers and other gas turbines						
37	841181	0,0	0,0	0,0	0,0	0,0	0,7
38	841182	0,0	0,0	0,0	0,0	0,0	0,0
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02						
39	850300	0,1	249,9	0,3	5,1	5,3	0,0
Total Imports		287,9	2 457,3	11,9	156,4	5,9	3,3

### 3.2 Exports of SEFTA Products to the Core and Candidate Countries (mill. US\$)

HS Code		Core Countries								
		NAFTA	EU27	Chile	Colom-bia	Peru	Australia	New Zealand	Singa-pore	Korea
Products categorized as 'renewable energy' only from the WTO (2011)										
3907		Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms								
1	390799	51,9	24,6	0,0	0,0	0,0	0,4	0,2	17,6	62,3
4016		Other articles of vulcanised rubber other than hard rubber								
2	401699	194,4	117,2	0,7	1,8	1,2	6,6	0,6	11,6	28,1
4707		Recovered (waste and scrap) paper or paperboard								
3	470710	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	3,7
4	470720	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	1,5
5	470730	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	12,4
6	470790	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	6,4
7308		Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel								
7	730820	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8406		Steam turbines and other vapour turbines								
8	840682	3,8	3,2	3,3	0,1	0,0	3,0	0,0	10,2	48,2
8418		Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15								
9	841861	21,5	37,3	0,6	0,0	0,0	1,7	0,2	2,4	7,7
10	841869	28,8	20,6	0,3	0,0	0,0	2,3	0,0	6,3	9,0



HS Code		Core Countries								
		NAFTA	EU27	Chile	Colom- bia	Peru	Australia	New Zealand	Singa- pore	Korea
8419		Machinery, plant or laboratory equipment								
11	841919	1,4	1,0	0,1	0,0	0,0	0,0	0,0	0,1	0,0
8479		Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter								
12	847920	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,2
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)								
13	848340	475,1	336,2	2,4	0,5	1,0	17,9	0,3	45,8	180,0
14	848360	31,0	18,0	0,0	0,0	0,1	2,2	0,2	5,3	16,0
8501		Electric motors and generators (excluding generating sets)								
15	850161	6,6	2,0	0,0	0,0	0,0	0,1	0,0	0,5	0,2
16	850162	11,4	0,0	0,0	0,0	0,0	0,0	0,0	0,1	0,3
17	850163	0,0	0,0	0,0	0,0	0,0	0,1	0,0	0,6	0,9
18	850164	137,7	19,6	0,0	0,0	0,0	0,0	0,0	3,1	24,3
8502		Electric generating sets and rotary converters								
19	850231	1,1	0,3	0,0	0,0	0,0	0,0	0,0	0,1	0,3
20	850239	2,5	1,8	0,0	0,0	0,0	0,0	0,0	5,4	49,5
8506		Primary cells and primary batteries								
21	850610	3,8	8,8	0,0	0,0	0,0	0,2	0,0	0,4	0,8
22	850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
23	850640	5,2	3,4	0,0	0,0	0,0	0,1	0,0	6,6	0,8
24	850650	52,7	48,6	0,0	0,0	0,0	0,1	0,0	7,3	4,9
25	850660	0,4	1,4	0,0	0,0	0,0	0,0	0,0	0,0	0,2
26	850690	11,2	4,3	0,0	0,0	0,0	0,0	0,0	0,0	1,1
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)								
27	850720	5,8	1,8	0,0	0,0	0,0	0,4	0,0	1,8	4,6
28	850740	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17								
29	853710	326,3	232,4	0,6	0,1	0,2	14,1	0,8	70,9	537,4
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals								
30	854140	645,5	1 638,0	0,0	0,1	0,0	93,8	1,2	105,0	447,4
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked								
31	900190	113,3	75,5	0,0	0,0	0,0	4,3	0,0	34,6	139,3
9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked								
32	900290	43,8	35,6	0,0	0,0	0,0	2,6	0,1	4,8	17,7
Other Products										
2207		Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat								
33	220710	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	3,8
3824		Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included								
34	382490	301,7	288,3	0,2	0,2	0,2	3,6	1,1	106,4	1 439,2

HS Code	Core Countries								
	NAFTA	EU27	Chile	Colom-bia	Peru	Austra-lia	New Zealand	Singa-pore	Korea
8410	Hydraulic turbines, water wheels, and regulators therefor								
35 841011	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,3	0,0
36 841090	5,8	0,1	0,0	0,0	0,0	1,1	3,3	0,0	0,1
8411	Turbo-jets, turbo-propellers and other gas turbines								
37 841181	0,2	0,4	0,0	0,0	0,0	0,0	0,0	0,0	2,4
38 841182	94,7	12,4	0,0	0,0	0,0	1,0	0,0	0,9	70,4
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02								
39 850300	167,5	87,5	0,1	0,9	0,3	7,5	0,0	6,9	29,6
Total Exports	2 744,7	3 020,0	8,2	3,7	2,9	162,9	7,8	454,6	3 150,2

HS Code	Candidate Countries					
	Brazil	China	India	Indonesia	Turkey	South Africa
Products categorized as 'renewable energy' only from the WTO (2011)						
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms					
1 390799	0,9	202,9	5,2	12,5	0,6	0,4
4016	Other articles of vulcanised rubber other than hard rubber					
2 401699	18,2	189,7	22,2	39,9	6,2	1,9
4707	Recovered (waste and scrap) paper or paperboard					
3 470710	0,0	315,5	0,0	0,0	0,0	0,0
4 470720	0,0	17,0	0,2	0,1	0,0	0,0
5 470730	0,0	261,6	0,3	6,4	0,0	0,0
6 470790	0,0	90,1	0,0	0,4	0,0	0,0
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel					
7 730820	0,0	0,0	0,0	0,0	0,0	0,0
8406	Steam turbines and other vapour turbines					
8 840682	0,0	29,0	51,2	12,2	0,0	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15					
9 841861	1,1	21,0	0,1	0,1	0,1	0,0
10 841869	0,5	20,9	0,2	2,0	0,2	0,3
8419	Machinery, plant or laboratory equipment					
11 841919	0,0	0,1	0,0	0,0	0,0	0,0
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter					
12 847920	0,0	1,5	0,0	0,0	0,0	0,0
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)					
13 848340	63,2	488,4	28,7	126,6	3,0	4,2
14 848360	6,2	30,1	3,6	14,5	1,0	1,1
8501	Electric motors and generators (excluding generating sets)					
15 850161	0,0	0,4	0,2	1,1	0,0	0,1
16 850162	0,0	0,2	0,0	0,0	0,0	0,0
17 850163	0,0	2,1	0,0	0,0	0,0	0,0
18 850164	0,0	5,0	83,4	18,9	0,0	0,1

HS Code	Candidate Countries					
	Brazil	China	India	Indonesia	Turkey	South Africa
8502	Electric generating sets and rotary converters					
19 850231	0,0	0,0	0,0	0,0	0,0	0,0
20 850239	0,0	2,2	0,0	20,4	0,0	0,0
8506	Primary cells and primary batteries					
21 850610	0,1	10,7	0,0	1,0	0,0	0,0
22 850630	0,0	0,0	0,0	0,0	0,0	0,0
23 850640	0,0	0,0	2,5	7,8	0,3	0,0
24 850650	0,2	9,6	0,3	0,4	0,0	0,1
25 850660	0,2	0,0	0,0	0,0	0,0	0,0
26 850690	0,0	2,1	0,1	7,8	0,0	0,0
8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27 850720	0,0	1,1	1,1	0,4	0,0	0,0
28 850740	0,0	0,0	0,0	0,0	0,0	0,0
8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29 853710	63,9	1 175,0	110,9	32,1	10,9	3,0
8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30 854140	3,2	1 389,4	11,4	89,0	0,6	0,8
9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked					
31 900190	1,2	900,8	0,8	6,0	0,2	0,0
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked					
32 900290	0,1	28,5	0,5	0,6	0,1	0,1
Other Products						
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat					
33 220710	0,0	0,2	0,0	0,0	0,0	0,0
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included					
34 382490	13,7	878,2	25,0	77,2	4,7	10,3
8410	Hydraulic turbines, water wheels, and regulators therefor					
35 841011	0,0	0,0	0,0	0,0	0,0	0,0
36 841090	0,0	0,9	3,9	1,0	0,0	0,0
8411	Turbo-jets, turbo-propellers and other gas turbines					
37 841181	0,0	0,1	0,0	0,0	0,0	0,0
38 841182	6,2	0,0	0,0	93,0	0,0	0,0
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02					
39 850300	10,7	333,9	85,1	147,7	0,5	0,1
Total Exports	189,3	6 407,8	436,8	718,8	28,2	22,4

Source: UN COMTRADE (accessed through the WITS on October 1, 2011)

**Table 3. Trade with Other Core and Candidate Countries: Korea (2009) <sup>a</sup>**

**3.1 Imports of SETA Products from the Core and Candidate Countries (mill. US\$)**

HS Code	Core Countries								
	NAFTA	EU27	Chile	Colombia	Peru	Australia	New Zealand	Singapore	Japan
Products categorized as 'renewable energy' only from the WTO (2011)									
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms								
1 390799	36,2	13,4	0,0	0,0	0,0	0,0	0,0	0,6	43,4
4016	Other articles of vulcanised rubber other than hard rubber								
2 401699	6,3	27,4	0,0	0,0	0,0	0,0	0,0	1,5	24,0
4707	Recovered (waste and scrap) paper or paperboard								
3 470710	42,6	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,2
4 470720	46,3	1,4	0,1	0,0	0,0	0,9	0,1	0,2	3,4
5 470730	51,6	29,7	0,2	0,0	0,1	0,7	0,4	5,2	7,5
6 470790	4,7	1,1	0,0	0,0	0,0	0,3	0,0	0,0	3,4
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel								
7 730820	0,1	1,7	0,0	0,0	0,0	0,0	0,0	0,0	1,7
8406	Steam turbines and other vapour turbines								
8 840682	1,0	9,9	0,0	0,0	0,0	0,0	0,0	0,0	13,9
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15								
9 841861	0,7	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,2
10 841869	17,1	7,5	0,0	0,0	0,0	0,0	0,0	0,0	3,6
8419	Machinery, plant or laboratory equipment								
11 841919	0,9	0,5	0,0	0,0	0,0	0,0	0,0	0,0	0,2
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter								
12 847920	0,3	0,5	0,0	0,0	0,0	0,0	0,0	0,0	1,8
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)								
13 848340	29,7	182,2	0,0	0,0	0,0	0,8	0,0	0,6	105,3
14 848360	16,2	30,8	0,0	0,0	0,0	0,0	0,0	0,1	27,6
8501	Electric motors and generators (excluding generating sets)								
15 850161	1,7	1,7	0,0	0,0	0,0	0,0	0,0	0,0	3,4
16 850162	0,8	3,8	0,0	0,0	0,0	0,0	0,0	0,0	0,2
17 850163	0,8	1,2	0,0	0,0	0,0	0,0	0,0	0,0	0,4
18 850164	14,4	60,2	0,0	0,0	0,0	0,0	0,0	0,0	77,0
8502	Electric generating sets and rotary converters								
19 850231	0,1	36,4	0,0	0,0	0,0	0,0	0,0	0,0	0,6
20 850239	54,1	19,6	0,0	0,0	0,0	0,0	0,0	0,1	32,6
8506	Primary cells and primary batteries								
21 850610	5,2	0,0	0,0	0,0	0,0	0,0	0,0	14,0	1,5
22 850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
23 850640	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	1,1
24 850650	1,3	0,2	0,0	0,0	0,0	0,0	0,0	0,0	2,3
25 850660	0,1	1,6	0,0	0,0	0,0	0,1	0,0	0,0	0,0

HS Code		Core Countries								
		NAFTA	EU27	Chile	Colom-bia	Peru	Australia	New Zealand	Singa-pore	Japan
26	850690	0,2	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,1
	8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)								
27	850720	2,1	1,9	0,0	0,0	0,0	0,0	0,0	0,1	1,4
28	850740	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,1
	8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17								
29	853710	172,0	179,7	0,0	0,0	0,0	1,5	0,1	6,3	253,8
	8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals								
30	854140	109,3	171,5	0,0	0,0	0,0	1,7	0,0	6,9	545,4
	9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked								
31	900190	11,1	7,2	0,0	0,0	0,0	0,0	0,0	1,1	296,3
	9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked								
32	900290	1,8	38,8	0,0	0,0	0,0	0,0	0,0	0,1	20,0
Other Products										
	2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat								
33	220710	2,4	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included								
34	382490	188,7	526,0	0,0	0,0	0,0	0,9	0,1	11,1	1 059,7
	8410	Hydraulic turbines, water wheels, and regulators therefor								
35	841011	0,0	0,9	0,0	0,0	0,0	0,0	0,0	0,0	0,0
36	841090	0,5	5,1	0,0	0,0	0,0	0,0	0,0	0,1	5,3
	8411	Turbo-jets, turbo-propellers and other gas turbines								
37	841181	27,4	9,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
38	841182	3,9	97,1	0,0	0,0	0,0	0,0	0,0	0,1	201,6
	8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02								
39	850300	18,6	60,4	0,0	0,0	0,0	1,0	0,0	1,2	54,6
Total Imports		869,9	1 528,7	0,3	0,0	0,1	7,8	0,7	49,2	2 793,1

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
Products categorized as 'renewable energy' only from the WTO (2011)							
	3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms					
1	390799	0,0	33,3	0,7	0,0	0,1	0,0
	4016	Other articles of vulcanised rubber other than hard rubber					
2	401699	0,0	35,8	0,3	1,0	0,1	0,0
	4707	Recovered (waste and scrap) paper or paperboard					
3	470710	0,0	0,0	0,0	0,0	0,0	0,0
4	470720	0,0	0,0	0,0	0,0	0,1	0,0
5	470730	0,0	0,0	0,0	0,0	0,1	0,0
6	470790	0,0	0,0	0,0	0,1	0,0	0,0

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
7308		Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel					
7	730820	0,0	0,0	0,0	0,0	0,0	0,0
8406		Steam turbines and other vapour turbines					
8	840682	0,0	0,0	0,7	0,0	0,0	0,0
8418		Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15					
9	841861	0,0	0,6	0,0	0,0	0,0	0,0
10	841869	0,0	5,1	0,0	0,0	0,0	0,0
8419		Machinery, plant or laboratory equipment					
11	841919	0,0	0,0	0,0	0,0	0,0	0,0
8479		Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter					
12	847920	0,0	0,0	0,5	0,0	0,0	0,0
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)					
13	848340	0,0	23,3	0,2	0,0	0,0	0,0
14	848360	0,0	4,3	2,4	0,0	0,0	0,0
8501		Electric motors and generators (excluding generating sets)					
15	850161	0,0	1,7	0,0	0,0	0,0	0,0
16	850162	0,0	0,9	0,0	0,0	0,0	0,0
17	850163	0,0	0,7	0,0	0,0	0,0	0,0
18	850164	0,0	11,6	0,2	0,0	0,0	0,0
8502		Electric generating sets and rotary converters					
19	850231	0,0	0,1	0,0	0,0	0,0	0,0
20	850239	0,0	1,9	0,0	0,0	0,0	0,0
8506		Primary cells and primary batteries					
21	850610	0,0	13,6	0,0	1,6	0,0	0,0
22	850630	0,0	0,3	0,0	0,0	0,0	0,0
23	850640	0,0	0,1	0,0	0,0	0,0	0,0
24	850650	0,0	8,3	0,0	1,8	0,0	0,0
25	850660	0,0	0,0	0,0	0,0	0,0	0,0
26	850690	0,0	0,1	0,0	0,0	0,0	0,0
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27	850720	0,0	16,3	0,7	0,0	0,0	0,0
28	850740	0,0	0,1	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29	853710	0,1	66,8	0,3	3,3	0,0	0,0
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30	854140	0,0	646,4	0,1	3,3	0,0	0,0
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked					
31	900190	0,0	93,0	0,0	0,0	0,0	0,0

HS Code	Candidate Countries					
	Brazil	China	India	Indonesia	Turkey	South Africa
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked					
32 900290	0,0	20,0	0,0	0,0	0,0	0,0
Other Products						
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat					
33 220710	53,3	7,8	0,0	0,0	0,0	0,0
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included					
34 382490	0,0	160,6	10,0	15,1	0,0	1,5
8410	Hydraulic turbines, water wheels, and regulators therefor					
35 841011	0,0	0,0	0,0	0,0	0,0	0,0
36 841090	0,0	13,4	0,0	0,0	0,0	0,0
8411	Turbo-jets, turbo-propellers and other gas turbines					
37 841181	0,0	0,1	0,0	0,0	0,0	0,0
38 841182	0,0	0,0	0,0	0,0	0,0	0,0
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02					
39 850300	0,0	76,9	0,2	16,4	0,0	0,0
Total Imports	53,4	1 242,8	16,2	42,5	0,4	1,5

### 3.2 Exports of SEFTA Products to the Core and Candidate Countries (mill. US\$)

HS Code	Core Countries								
	NAFTA	EU27	Chile	Colombia	Peru	Australia	New Zealand	Singapore	Japan
Products categorized as 'renewable energy' only from the WTO (2011)									
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms								
1 390799	25,8	56,7	1,4	13,3	2,0	1,0	0,6	0,6	26,6
4016	Other articles of vulcanised rubber other than hard rubber								
2 401699	16,5	16,4	0,2	0,1	0,1	1,7	0,0	0,2	15,5
4707	Recovered (waste and scrap) paper or paperboard								
3 470710	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4 470720	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
5 470730	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
6 470790	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel								
7 730820	0,7	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8406	Steam turbines and other vapour turbines								
8 840682	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15								
9 841861	0,1	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0
10 841869	11,4	7,1	2,0	0,5	0,2	1,9	0,1	0,6	28,8
8419	Machinery, plant or laboratory equipment								
11 841919	1,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,1



HS Code	Core Countries								
	NAFTA	EU27	Chile	Colom-bia	Peru	Australia	New Zealand	Singapore	Japan
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter								
12 847920	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)								
13 848340	34,4	9,2	0,2	1,3	0,2	1,3	0,0	6,2	53,2
14 848360	2,3	1,8	0,0	0,0	0,0	0,1	0,0	0,4	3,2
8501	Electric motors and generators (excluding generating sets)								
15 850161	0,4	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,2
16 850162	0,6	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0
17 850163	0,2	0,1	0,0	0,0	0,0	0,0	0,0	0,0	1,5
18 850164	21,1	7,4	0,0	0,0	0,0	0,0	0,0	0,0	21,0
8502	Electric generating sets and rotary converters								
19 850231	1,5	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
20 850239	2,7	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,2
8506	Primary cells and primary batteries								
21 850610	2,7	4,1	0,0	0,0	0,0	0,8	0,0	0,2	9,0
22 850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
23 850640	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,1
24 850650	5,4	6,2	0,0	0,0	0,0	0,2	0,0	1,1	0,3
25 850660	0,4	0,5	0,0	0,0	0,0	0,1	0,1	0,0	0,0
26 850690	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)								
27 850720	6,8	0,4	0,0	0,1	0,0	0,5	0,0	1,3	3,0
28 850740	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17								
29 853710	33,3	26,5	9,8	0,0	0,0	2,3	0,1	9,2	10,6
8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals								
30 854140	21,8	466,8	0,0	0,0	0,0	4,7	0,0	14,5	90,2
9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked								
31 900190	11,8	92,8	0,0	0,0	0,0	0,0	0,0	1,0	14,9
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked								
32 900290	1,9	14,2	0,0	0,0	0,0	0,0	0,0	0,4	17,5
Other Products									
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat								
33 220710	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included								
34 382490	41,1	19,9	0,3	0,1	0,0	4,1	1,0	6,8	123,3
8410	Hydraulic turbines, water wheels, and regulators therefor								
35 841011	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,7
36 841090	0,0	0,3	0,0	0,0	0,0	0,0	0,0	0,0	0,3

HS Code	Core Countries								
	NAFTA	EU27	Chile	Colombia	Peru	Australia	New Zealand	Singapore	Japan
8411	Turbo-jets, turbo-propellers and other gas turbines								
37 841181	0,5	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,1
38 841182	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02								
39 850300	41,4	28,8	0,9	0,0	0,0	3,6	3,1	0,6	27,6
Total Exports	286,0	759,6	14,7	15,4	2,5	22,2	5,0	43,0	447,6

HS Code	Candidate Countries					
	Brazil	China	India	Indonesia	Turkey	South Africa
Products categorized as 'renewable energy' only from the WTO (2011)						
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms					
1 390799	15,6	69,4	12,9	53,2	12,5	0,5
4016	Other articles of vulcanised rubber other than hard rubber					
2 401699	0,0	21,5	2,5	2,4	0,1	0,2
4707	Recovered (waste and scrap) paper or paperboard					
3 470710	0,0	11,5	0,0	1,0	0,0	0,0
4 470720	0,0	0,4	0,0	0,0	0,0	0,0
5 470730	0,0	4,1	0,0	0,0	0,0	0,0
6 470790	0,0	8,4	0,0	0,3	0,0	0,0
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel					
7 730820	0,0	0,0	0,0	0,0	0,0	0,0
8406	Steam turbines and other vapour turbines					
8 840682	0,0	0,0	0,0	0,0	0,0	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15					
9 841861	0,0	0,0	0,0	0,0	0,0	0,0
10 841869	2,1	4,0	0,4	0,9	0,3	0,3
8419	Machinery, plant or laboratory equipment					
11 841919	0,0	0,4	0,0	0,0	0,0	0,0
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter					
12 847920	0,0	0,0	0,0	0,0	0,0	0,0
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)					
13 848340	0,1	71,9	8,4	3,0	0,2	0,1
14 848360	0,2	1,2	0,6	0,2	0,1	0,4
8501	Electric motors and generators (excluding generating sets)					
15 850161	0,0	0,4	0,0	0,0	0,0	0,0
16 850162	0,0	0,1	0,0	0,1	0,0	0,0
17 850163	0,0	0,6	0,1	0,1	0,0	0,0
18 850164	0,0	8,1	0,0	0,0	0,0	0,0
8502	Electric generating sets and rotary converters					
19 850231	0,0	0,1	0,0	0,0	0,0	0,0
20 850239	0,0	0,0	0,0	0,0	0,0	0,0

HS Code		Candidate Countries					
		Brazil	China	India	Indonesia	Turkey	South Africa
8506		Primary cells and primary batteries					
21	850610	0,0	0,3	0,1	0,8	0,0	0,0
22	850630	0,0	0,0	0,0	0,0	0,0	0,0
23	850640	0,0	0,0	0,0	0,0	0,0	0,0
24	850650	0,6	11,7	1,5	0,3	4,2	0,0
25	850660	0,1	0,0	0,0	0,0	0,1	0,0
26	850690	0,0	15,1	0,0	0,0	0,0	0,0
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27	850720	0,0	0,8	0,3	0,2	0,0	0,0
28	850740	0,0	0,0	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29	853710	2,3	97,3	5,3	7,2	4,3	0,2
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30	854140	1,4	465,0	1,9	2,0	1,8	1,8
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked					
31	900190	0,0	515,0	0,0	0,0	0,1	0,0
9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked					
32	900290	0,0	59,2	0,0	0,0	0,0	0,0
Other Products							
2207		Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat					
33	220710	0,0	0,0	0,0	0,0	0,0	0,0
3824		Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included					
34	382490	1,1	293,2	36,1	13,9	8,5	0,4
8410		Hydraulic turbines, water wheels, and regulators therefor					
35	841011	0,0	0,0	0,0	0,0	0,0	0,0
36	841090	3,3	4,1	0,0	0,0	0,1	0,0
8411		Turbo-jets, turbo-propellers and other gas turbines					
37	841181	0,0	0,0	0,0	0,0	0,0	0,0
38	841182	0,0	0,0	0,0	0,0	0,0	0,0
8503		Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02					
39	850300	0,2	95,4	11,0	19,3	4,3	0,2
Total Exports		26,9	1 758,8	81,0	104,8	36,5	3,9

Note:

a. Imports and exports are from 2009.

Source: COMTRADE (accessed through the WITS on October 1, 2011)

# **Table 3. Trade with Other Core and Candidate Countries: Brazil (2010)**

## **3.1 Imports of SETA Products from the Core and Candidate Countries (mill. US\$)**

HS Code		Core Countries									
		NAFTA	EU27	Chile	Colombia	Peru	Australia	New Zealand	Singapore	Japan	Korea
Products categorized as 'renewable energy' only from the WTO (2011)											
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms										
1	390799	21,3	33,8	0,0	0,0	0,0	0,0	0,0	0,0	0,9	1,6
4016	Other articles of vulcanised rubber other than hard rubber										
2	401699	40,1	83,5	0,0	0,0	0,0	0,3	0,0	2,7	32,9	7,0
4707	Recovered (waste and scrap) paper or paperboard										
3	470710	1,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4	470720	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
5	470730	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
6	470790	0,0	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel										
7	730820	0,1	4,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	21,7
8406	Steam turbines and other vapour turbines										
8	840682	0,1	4,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15										
9	841861	0,1	0,5	0,0	0,0	0,0	0,0	0,0	0,0	1,5	0,0
10	841869	55,2	28,9	0,0	0,0	0,0	0,0	0,0	0,0	5,3	12,4
8419	Machinery, plant or laboratory equipment										
11	841919	0,5	0,5	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter										
12	847920	0,3	0,8	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)										
13	848340	98,4	257,1	0,1	0,0	0,0	1,7	0,0	9,4	67,7	5,7
14	848360	11,1	19,0	0,0	0,0	0,0	0,0	0,0	0,0	13,3	0,6
8501	Electric motors and generators (excluding generating sets)										
15	850161	22,0	0,5	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
16	850162	8,1	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
17	850163	4,7	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
18	850164	3,8	4,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8502	Electric generating sets and rotary converters										
19	850231	5,8	124,9	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
20	850239	30,7	1,2	0,0	0,0	0,0	0,0	0,0	0,0	15,0	0,0
8506	Primary cells and primary batteries										
21	850610	12,4	6,0	0,0	0,0	0,0	0,0	0,0	4,9	0,3	1,2
22	850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
23	850640	1,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,4	0,0
24	850650	3,0	4,8	0,0	0,0	0,0	0,0	0,1	0,0	1,3	0,7
25	850660	0,3	1,1	0,0	0,0	0,0	0,0	0,0	0,1	0,2	0,1

HS Code		Core Countries									
		NAFTA	EU27	Chile	Colombia	Peru	Australia	New Zealand	Singapore	Japan	Korea
26	850690	2,1	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)									
27	850720	8,8	8,6	0,0	0,0	0,0	0,0	0,0	0,0	0,2	0,0
28	850740	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17									
29	853710	66,2	130,2	0,0	0,4	0,0	0,2	0,4	1,5	19,2	4,9
	8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals									
30	854140	12,9	9,2	0,0	0,0	0,0	0,0	0,0	0,5	11,8	9,8
	9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked									
31	900190	1,4	1,3	0,0	0,0	0,0	0,0	0,0	0,3	0,1	0,0
	9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked									
32	900290	2,7	0,7	0,0	0,0	0,0	0,0	0,0	0,0	0,2	0,3
Other Products											
	2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat									
33	220710	14,4	0,6	2,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included									
34	382490	139,1	153,0	0,0	0,1	0,1	2,6	0,0	0,7	8,7	1,1
	8410	Hydraulic turbines, water wheels, and regulators therefor									
35	841011	0,0	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
36	841090	0,3	16,4	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	8411	Turbo-jets, turbo-propellers and other gas turbines									
37	841181	21,0	3,7	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
38	841182	9,7	6,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02									
39	850300	22,6	72,3	0,0	0,0	0,0	0,0	0,0	0,0	4,4	1,3
Total Imports		620,9	977,2	2,2	0,5	0,1	4,8	0,5	20,0	183,2	68,2

HS Code		Candidate Countries				
		China	India	Indonesia	Turkey	South Africa
Products categorized as 'renewable energy' only from the WTO (2011)						
	3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms				
1	390799	3,7	0,1	0,0	0,0	0,0
	4016	Other articles of vulcanised rubber other than hard rubber				
2	401699	18,1	1,3	0,5	2,7	0,6
	4707	Recovered (waste and scrap) paper or paperboard				
3	470710	0,0	0,0	0,0	0,0	0,0
4	470720	0,0	0,0	0,0	0,0	0,0
5	470730	0,0	0,0	0,0	0,0	0,0
6	470790	0,0	0,0	0,0	0,0	0,0

HS Code		Candidate Countries				
		China	India	Indonesia	Turkey	South Africa
7308		Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel				
7	730820	0,0	0,0	0,0	0,0	0,0
8406		Steam turbines and other vapour turbines				
8	840682	0,0	0,0	0,0	0,0	0,0
8418		Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15				
9	841861	0,0	0,0	0,0	0,0	0,0
10	841869	94,9	0,2	0,0	0,0	0,0
8419		Machinery, plant or laboratory equipment				
11	841919	1,9	0,0	0,0	0,0	0,0
8479		Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter				
12	847920	0,0	0,0	0,0	0,0	0,0
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)				
13	848340	28,8	6,1	0,4	1,9	0,1
14	848360	3,0	1,0	1,5	0,0	0,1
8501		Electric motors and generators (excluding generating sets)				
15	850161	2,1	0,0	0,0	0,0	0,0
16	850162	7,3	0,0	0,0	0,0	0,0
17	850163	0,2	0,0	0,0	0,0	0,0
18	850164	0,5	0,4	0,0	0,0	0,0
8502		Electric generating sets and rotary converters				
19	850231	9,2	134,0	0,0	0,0	0,0
20	850239	0,5	0,0	0,0	0,0	0,0
8506		Primary cells and primary batteries				
21	850610	38,0	0,0	3,1	0,0	0,0
22	850630	0,0	0,0	0,0	0,0	0,0
23	850640	0,1	0,0	0,0	0,0	0,0
24	850650	21,5	0,0	1,1	0,0	0,0
25	850660	0,9	0,0	0,0	0,0	0,0
26	850690	0,1	0,0	0,0	0,0	0,0
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)				
27	850720	43,5	1,3	0,0	0,0	0,0
28	850740	0,4	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17				
29	853710	14,6	1,2	0,2	0,0	0,2
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals				
30	854140	54,6	0,1	0,4	0,0	0,0
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked				
31	900190	0,8	0,0	0,0	0,0	0,0

HS Code	Candidate Countries				
	China	India	Indonesia	Turkey	South Africa
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked				
32	900290	0,5	0,0	0,0	0,0
Other Products					
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat				
33	220710	0,0	0,0	0,0	0,0
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included				
34	382490	20,7	8,7	0,0	0,7
8410	Hydraulic turbines, water wheels, and regulators therefor				
35	841011	0,1	0,0	0,0	0,0
36	841090	4,3	0,0	0,0	0,0
8411	Turbo-jets, turbo-propellers and other gas turbines				
37	841181	0,1	0,0	0,0	0,0
38	841182	0,0	0,0	0,0	0,0
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02				
39	850300	19,9	1,4	0,0	0,0
Total Imports		390,0	155,7	7,2	4,6
					1,7

### 3.2 Exports of SETA Products to the Core and Candidate Countries (mill. US\$)

HS Code	Core Countries									
	NAFTA	EU27	Chile	Colombia	Peru	Australia	New Zealand	Singapore	Japan	Korea
Products categorized as 'renewable energy' only from the WTO (2011)										
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms									
1	390799	2,8	0,4	4,1	6,0	2,5	0,0	0,0	0,0	0,0
4016	Other articles of vulcanised rubber other than hard rubber									
2	401699	12,3	3,6	0,9	0,8	0,3	0,0	0,0	0,1	0,3
4707	Recovered (waste and scrap) paper or paperboard									
3	470710	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4	470720	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
5	470730	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
6	470790	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel									
7	730820	0,3	0,0	7,8	0,0	0,3	0,0	0,0	0,0	0,0
8406	Steam turbines and other vapour turbines									
8	840682	4,1	9,0	2,6	0,0	4,7	0,0	0,0	0,0	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15									
9	841861	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
10	841869	5,9	0,4	2,0	0,5	1,8	0,0	0,0	0,0	0,0
8419	Machinery, plant or laboratory equipment									
11	841919	0,0	0,0	0,1	0,0	0,1	0,1	0,0	0,0	0,0
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter									
12	847920	0,2	0,4	0,0	0,0	0,0	0,0	0,0	0,0	0,0



HS Code		Core Countries									
		NAFTA	EU27	Chile	Colom- bia	Peru	Australia	New Zealand	Singa- pore	Japan	Korea
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)									
13	848340	15,9	10,8	2,5	1,4	3,1	0,8	0,0	0,5	0,0	0,0
14	848360	1,0	0,6	0,3	0,1	0,2	0,0	0,0	0,0	0,0	0,0
8501		Electric motors and generators (excluding generating sets)									
15	850161	0,5	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
16	850162	0,4	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
17	850163	1,6	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
18	850164	55,9	13,0	4,4	0,2	0,8	0,0	0,0	0,0	0,0	0,0
8502		Electric generating sets and rotary converters									
19	850231	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
20	850239	0,1	44,7	0,0	0,1	0,0	0,0	0,0	0,0	0,0	0,0
8506		Primary cells and primary batteries									
21	850610	0,0	0,0	0,2	0,0	0,2	0,0	0,0	0,0	0,0	0,0
22	850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
23	850640	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
24	850650	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
25	850660	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
26	850690	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)									
27	850720	0,1	0,7	0,1	0,0	0,7	0,0	0,0	0,0	0,0	0,0
28	850740	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17									
29	853710	12,6	16,0	3,9	2,8	1,8	0,1	0,0	2,2	0,0	0,0
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals									
30	854140	0,3	0,7	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked									
31	900190	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked									
32	900290	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Other Products											
2207		Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat									
33	220710	226,0	227,0	3,5	0,0	0,0	9,4	2,1	3,7	131,2	188,1
3824		Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included									
34	382490	8,5	13,3	4,5	5,7	2,8	0,4	0,0	1,3	0,2	0,1
8410		Hydraulic turbines, water wheels, and regulators therefor									
35	841011	0,0	0,1	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0
36	841090	20,6	11,7	1,5	0,8	0,0	0,0	0,0	0,0	0,0	0,0
8411		Turbo-jets, turbo-propellers and other gas turbines									
37	841181	0,8	0,7	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
38	841182	0,0	0,3	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

HS Code	Core Countries									
	NAFTA	EU27	Chile	Colombia	Peru	Australia	New Zealand	Singapore	Japan	Korea
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02									
39 850300	108,9	67,8	1,8	3,2	0,5	2,7	0,0	0,0	0,0	0,0
Total Exports	479,0	421,2	40,4	21,6	19,8	13,5	2,1	7,8	131,7	188,2

  

HS Code	Candidate Countries				
	China	India	Indonesia	Turkey	South Africa
Products categorized as 'renewable energy' only from the WTO (2011)					
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms				
1 390799	0,1	0,0	0,0	0,0	0,1
4016	Other articles of vulcanised rubber other than hard rubber				
2 401699	1,0	0,5	0,0	0,2	1,1
4707	Recovered (waste and scrap) paper or paperboard				
3 470710	0,0	0,0	0,0	0,0	0,0
4 470720	0,0	0,0	0,0	0,0	0,0
5 470730	0,0	0,0	0,0	0,0	0,0
6 470790	0,0	0,0	0,0	0,0	0,0
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel				
7 730820	0,0	0,0	0,0	0,0	0,0
8406	Steam turbines and other vapour turbines				
8 840682	0,0	0,0	0,0	0,0	1,2
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15				
9 841861	0,0	0,0	0,0	0,0	0,0
10 841869	0,0	0,2	0,2	0,0	0,1
8419	Machinery, plant or laboratory equipment				
11 841919	0,0	0,0	0,0	0,0	0,3
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter				
12 847920	2,1	0,0	0,0	0,0	0,0
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)				
13 848340	0,8	0,0	0,0	0,1	1,2
14 848360	0,1	0,0	0,0	0,0	0,0
8501	Electric motors and generators (excluding generating sets)				
15 850161	0,0	0,0	0,0	0,0	0,0
16 850162	0,0	0,0	0,0	0,0	0,0
17 850163	0,0	0,0	0,0	0,0	0,9
18 850164	0,0	1,4	0,0	1,2	0,7
8502	Electric generating sets and rotary converters				
19 850231	0,0	0,0	0,0	0,0	0,0
20 850239	0,0	0,0	0,0	0,0	0,0
8506	Primary cells and primary batteries				
21 850610	0,0	0,0	0,0	0,0	0,0
22 850630	0,0	0,0	0,0	0,0	0,0
23 850640	0,0	0,0	0,0	0,0	0,0

HS Code		Candidate Countries				
		China	India	Indonesia	Turkey	South Africa
24	850650	0,0	0,0	0,0	0,0	0,0
25	850660	0,0	0,0	0,0	0,0	0,0
26	850690	0,0	0,0	0,0	0,0	0,0
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)				
27	850720	0,1	0,0	0,0	0,0	2,6
28	850740	0,0	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17				
29	853710	0,4	2,0	0,8	1,4	0,1
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals				
30	854140	0,3	0,0	0,0	0,0	0,0
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked				
31	900190	6,1	0,0	0,0	0,0	0,1
9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked				
32	900290	0,3	0,0	0,0	0,0	0,0
Other Products						
2207		Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat				
33	220710	0,0	27,7	0,0	0,0	2,3
3824		Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included				
34	382490	2,5	0,5	0,4	0,4	1,1
8410		Hydraulic turbines, water wheels, and regulators therefor				
35	841011	0,0	0,0	0,0	0,0	0,0
36	841090	9,0	5,5	0,0	0,0	0,0
8411		Turbo-jets, turbo-propellers and other gas turbines				
37	841181	0,0	0,0	0,0	0,0	0,0
38	841182	0,0	0,0	0,0	0,0	0,0
8503		Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02				
39	850300	3,1	7,6	0,1	4,6	8,5
Total Exports		25,8	45,4	1,4	7,9	20,2

Source: COMTRADE (accessed through the WITS on October 1, 2011)

**Table 3. Trade with Other Core and Candidate Countries: China (2010)**

**3.1 Imports of SETA Products from the Core and Candidate Countries (mill. US\$)**

HS Code	Core Countries									
	NAFTA	EU27	Chile	Colombia	Peru	Australia	New Zealand	Singapore	Japan	Korea
Products categorized as 'renewable energy' only from the WTO (2011)										
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms									
1 390799	115,9	102,0	0,0	0,0	0,0	1,6	0,1	6,6	275,5	43,1
4016	Other articles of vulcanised rubber other than hard rubber									
2 401699	58,7	147,5	0,0	0,0	0,0	0,8	0,2	15,3	180,4	84,6
4707	Recovered (waste and scrap) paper or paperboard									
3 470710	1 473,3	1 073,6	0,0	0,0	0,0	78,7	11,5	0,1	408,1	8,9
4 470720	68,8	19,0	0,0	0,0	0,0	10,0	0,6	0,6	38,2	0,3
5 470730	808,1	173,2	0,0	0,0	0,0	40,6	1,9	0,0	111,3	7,0
6 470790	224,6	233,7	0,0	0,0	0,0	46,4	0,9	0,0	226,8	0,3
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel									
7 730820	0,1	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8406	Steam turbines and other vapour turbines									
8 840682	30,9	51,0	0,0	0,0	0,0	0,0	0,0	0,0	21,4	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15									
9 841861	4,1	3,1	0,0	0,0	0,0	0,0	0,2	0,9	3,6	0,1
10 841869	55,5	64,9	0,0	0,0	0,0	0,1	0,0	417,4	36,7	12,7
8419	Machinery, plant or laboratory equipment									
11 841919	0,4	0,6	0,0	0,0	0,0	0,2	0,0	0,0	0,0	0,0
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter									
12 847920	0,1	2,6	0,0	0,0	0,0	0,0	0,2	0,0	0,0	0,1
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)									
13 848340	132,7	1 087,4	0,0	0,0	0,0	4,8	0,3	8,7	443,8	96,5
14 848360	18,4	157,5	0,0	0,0	0,0	0,4	0,0	0,4	42,9	6,3
8501	Electric motors and generators (excluding generating sets)									
15 850161	5,7	4,2	0,0	0,0	0,0	0,3	0,0	0,0	0,7	0,1
16 850162	0,6	3,1	0,0	0,0	0,0	0,2	0,0	1,2	0,2	1,9
17 850163	1,5	2,7	0,0	0,0	0,0	0,0	0,0	0,0	4,2	1,4
18 850164	7,6	83,4	0,0	0,0	0,0	0,0	0,0	2,4	6,0	17,0
8502	Electric generating sets and rotary converters									
19 850231	0,0	9,6	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,7
20 850239	66,0	32,8	0,0	0,0	0,0	0,0	0,0	0,0	3,2	0,0
8506	Primary cells and primary batteries									
21 850610	17,7	1,8	0,0	0,0	0,0	0,0	0,0	8,6	22,2	0,7
22 850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
23 850640	0,0	0,1	0,0	0,0	0,0	0,0	0,0	0,0	19,2	0,0
24 850650	10,3	5,9	0,0	0,0	0,0	0,6	0,0	7,7	66,4	4,9
25 850660	0,4	1,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
26 850690	2,0	1,3	0,0	0,0	0,0	0,0	0,0	4,4	1,1	0,0

HS Code	Core Countries									
	NAFTA	EU27	Chile	Colom-bia	Peru	Australia	New Zealand	Singa-pore	Japan	Korea
8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)									
27 850720	24,7	23,2	0,0	0,0	0,0	0,0	0,0	0,0	1,8	1,1
28 850740	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,1	0,0
8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17									
29 853710	250,3	1 501,7	0,0	0,0	0,0	9,7	1,0	23,1	959,1	149,5
8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals									
30 854140	170,6	267,8	0,0	0,0	0,0	0,6	0,0	39,9	1 695,4	728,9
9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked									
31 900190	99,2	62,4	0,0	0,0	0,0	2,1	0,0	20,4	1 068,9	934,3
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked									
32 900290	13,8	16,7	0,0	0,0	0,0	0,0	0,0	0,9	50,0	52,5
Other Products										
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat									
33 220710	0,1	0,3	0,0	0,0	0,0	0,0	0,0	0,0	0,2	0,0
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included									
34 382490	1 174,2	623,7	0,2	0,0	0,0	7,3	0,7	87,4	1 486,9	379,7
8410	Hydraulic turbines, water wheels, and regulators therefor									
35 841011	0,0	4,5	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
36 841090	0,0	12,9	0,0	0,0	0,0	0,0	0,0	0,0	1,1	6,9
8411	Turbo-jets, turbo-propellers and other gas turbines									
37 841181	2,2	3,3	0,0	0,0	0,0	0,0	0,0	0,0	0,4	0,0
38 841182	66,2	28,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02									
39 850300	57,3	316,1	0,0	0,0	0,0	0,3	0,0	6,4	370,3	80,8
Total Imports	4 961,7	6 123,0	0,2	0,0	0,0	204,5	17,4	652,4	7 545,9	2 620,2

HS Code	Candidate Countries				
	Brazil	India	Indonesia	Turkey	South Africa
Products categorized as 'renewable energy' only from the WTO (2011)					
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms				
1 390799	0,1	0,4	0,0	0,1	0,0
4016	Other articles of vulcanised rubber other than hard rubber				
2 401699	2,7	1,3	3,7	0,8	0,1
4707	Recovered (waste and scrap) paper or paperboard				
3 470710	0,0	0,0	0,0	2,0	0,1
4 470720	0,0	0,0	0,0	1,2	0,0
5 470730	0,0	0,0	0,0	0,3	0,0
6 470790	0,0	0,0	0,0	0,0	0,0
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel				
7 730820	0,0	0,0	0,0	0,0	0,0

HS Code		Candidate Countries				
		Brazil	India	Indonesia	Turkey	South Africa
8406	Steam turbines and other vapour turbines					
8	840682	0,0	0,0	0,0	0,0	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15					
9	841861	0,0	0,0	0,0	0,0	0,0
10	841869	0,0	0,0	0,2	0,0	0,0
8419	Machinery, plant or laboratory equipment					
11	841919	0,0	0,0	0,0	0,0	0,0
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter					
12	847920	1,0	0,4	0,0	0,0	0,0
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)					
13	848340	2,0	9,2	0,2	0,3	0,2
14	848360	0,0	0,5	0,0	0,0	0,0
8501	Electric motors and generators (excluding generating sets)					
15	850161	0,0	0,0	0,0	0,0	0,0
16	850162	0,0	0,0	0,0	0,0	0,0
17	850163	0,0	0,0	0,0	0,0	0,0
18	850164	0,0	7,0	0,0	0,0	0,0
8502	Electric generating sets and rotary converters					
19	850231	0,0	0,0	0,0	0,0	0,0
20	850239	0,0	0,0	0,0	0,0	0,0
8506	Primary cells and primary batteries					
21	850610	0,0	0,0	6,9	0,0	0,0
22	850630	0,0	0,0	0,0	0,0	0,0
23	850640	0,0	0,0	0,0	0,0	0,0
24	850650	0,0	0,0	38,4	0,0	0,0
25	850660	0,0	0,0	0,2	0,0	0,0
26	850690	0,0	0,0	0,1	0,0	0,0
8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27	850720	0,0	0,8	0,0	0,0	0,0
28	850740	0,0	0,0	0,0	0,0	0,0
8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29	853710	1,3	2,6	7,0	0,3	3,2
8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30	854140	0,0	47,2	97,2	0,0	0,0
9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked					
31	900190	0,0	0,2	0,7	0,0	0,0
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked					
32	900290	0,0	0,0	0,0	0,0	0,0

HS Code	Candidate Countries				
	Brazil	India	Indonesia	Turkey	South Africa
Other Products					
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat				
33 220710	0,0	0,0	0,0	0,0	0,0
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included				
34 382490	4,0	11,3	35,7	11,3	19,0
8410	Hydraulic turbines, water wheels, and regulators therefor				
35 841011	0,0	0,0	0,0	0,0	0,0
36 841090	9,7	0,0	0,0	0,0	0,0
8411	Turbo-jets, turbo-propellers and other gas turbines				
37 841181	0,0	0,0	0,0	0,0	0,0
38 841182	0,0	0,0	0,0	0,0	0,0
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02				
39 850300	3,2	23,1	1,6	0,3	0,0
Total Imports	23,9	103,9	191,8	16,5	22,6

### 3.2 Exports of SETA Products to the Core and Candidate Countries (mill. US\$)

HS Code	Core Countries									
	NAFTA	EU27	Chile	Colom-bia	Peru	Australia	New Zealand	Singa-pore	Japan	Korea
Products categorized as 'renewable energy' only from the WTO (2011)										
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms									
1 390799	16,3	17,0	0,2	0,7	0,0	3,3	0,1	5,2	16,6	65,8
4016	Other articles of vulcanised rubber other than hard rubber									
2 401699	140,2	77,7	1,8	0,6	0,4	8,7	0,8	5,4	72,1	21,9
4707	Recovered (waste and scrap) paper or paperboard									
3 470710	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4 470720	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
5 470730	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
6 470790	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel									
7 730820	59,2	14,0	0,8	0,0	3,1	13,5	0,6	1,2	16,1	0,2
8406	Steam turbines and other vapour turbines									
8 840682	0,0	0,0	0,0	0,0	0,0	0,0	0,0	3,4	0,0	0,2
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15									
9 841861	20,0	71,7	2,3	0,2	0,2	6,2	1,0	3,2	6,7	2,5
10 841869	74,3	205,2	6,3	1,2	3,0	26,4	2,5	29,5	17,0	22,7
8419	Machinery, plant or laboratory equipment									
11 841919	19,4	30,5	2,0	0,1	0,2	2,6	0,3	0,3	0,2	3,1
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter									
12 847920	2,1	0,6	0,0	0,0	0,3	0,1	0,0	0,0	0,0	0,0



HS Code		Core Countries									
		NAFTA	EU27	Chile	Colom- bia	Peru	Australia	New Zealand	Singa- pore	Japan	Korea
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)									
13	848340	270,5	155,8	2,1	1,2	2,2	8,0	0,5	20,2	75,8	25,1
14	848360	29,3	30,8	0,6	0,8	0,2	1,8	0,1	1,7	16,3	3,8
8501		Electric motors and generators (excluding generating sets)									
15	850161	24,4	3,9	0,2	0,3	1,1	2,1	0,0	1,8	3,9	0,5
16	850162	11,7	8,0	0,0	0,1	0,0	0,6	0,0	4,1	3,1	2,9
17	850163	0,2	11,4	0,0	0,0	0,2	0,2	0,0	4,7	1,0	0,8
18	850164	23,1	44,2	0,0	0,7	0,5	0,2	0,2	16,3	18,1	0,5
8502		Electric generating sets and rotary converters									
19	850231	10,7	7,2	2,9	0,0	0,0	19,4	0,0	0,1	0,0	0,1
20	850239	10,4	4,3	0,0	0,1	0,2	0,1	0,3	2,1	0,0	0,0
8506		Primary cells and primary batteries									
21	850610	186,8	234,6	2,6	3,6	0,8	35,0	2,5	13,1	41,3	11,7
22	850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
23	850640	0,9	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,1	0,0
24	850650	12,8	11,5	0,0	0,0	0,0	2,8	0,1	0,6	4,0	0,4
25	850660	0,0	0,9	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
26	850690	2,5	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,5
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)									
27	850720	295,6	390,1	6,6	10,1	2,3	40,9	6,2	54,6	14,8	22,5
28	850740	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17									
29	853710	502,8	490,3	4,5	1,1	1,1	26,4	1,6	61,6	458,6	113,9
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals									
30	854140	1 459,2	19 579,0	2,0	1,2	2,4	785,4	1,9	66,9	467,2	382,9
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked									
31	900190	103,6	55,1	0,0	0,0	0,0	3,2	0,2	46,1	219,1	70,6
9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked									
32	900290	29,6	18,0	0,0	0,0	0,0	0,3	0,0	4,0	71,5	14,7
Other Products											
2207		Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat									
33	220710	0,0	0,0	0,0	0,0	0,0	2,2	0,0	1,4	9,9	49,0
3824		Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included									
34	382490	176,5	245,1	6,6	2,9	2,1	25,6	4,4	26,6	272,0	175,1
8410		Hydraulic turbines, water wheels, and regulators therefor									
35	841011	0,1	0,9	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
36	841090	28,1	8,9	0,6	0,0	0,1	0,0	0,0	0,5	6,0	1,1
8411		Turbo-jets, turbo-propellers and other gas turbines									
37	841181	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

HS Code		Core Countries									
		NAFTA	EU27	Chile	Colom-bia	Peru	Australia	New Zealand	Singa-pore	Japan	Korea
38	841182	2,5	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8503		Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02									
39	850300	567,4	410,4	1,2	0,7	0,5	13,5	0,2	14,3	177,3	93,3
Total Exports		4 080,0	22 127,1	43,0	25,4	20,6	1 028,4	23,4	388,6	1 988,6	1 085,6

HS Code		Candidate Countries				
		Brazil	India	Indonesia	Turkey	South Africa
Products categorized as 'renewable energy' only from the WTO (2011)						
3907		Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms				
1	390799	3,5	19,5	3,6	3,5	1,1
4016		Other articles of vulcanised rubber other than hard rubber				
2	401699	4,1	8,6	6,9	3,6	2,3
4707		Recovered (waste and scrap) paper or paperboard				
3	470710	0,0	0,0	0,0	0,0	0,0
4	470720	0,0	0,0	0,0	0,0	0,0
5	470730	0,0	0,0	0,0	0,0	0,0
6	470790	0,0	0,0	0,0	0,0	0,0
7308		Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel				
7	730820	0,0	6,2	15,2	0,0	4,3
8406		Steam turbines and other vapour turbines				
8	840682	0,2	30,2	19,4	8,8	1,4
8418		Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15				
9	841861	9,5	6,0	0,6	0,8	5,3
10	841869	10,6	77,0	26,7	11,4	10,6
8419		Machinery, plant or laboratory equipment				
11	841919	0,9	4,5	0,4	7,7	13,7
8479		Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter				
12	847920	0,1	0,6	7,6	0,0	2,7
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)				
13	848340	20,5	83,9	22,2	7,7	5,7
14	848360	8,7	7,3	9,4	1,0	2,7
8501		Electric motors and generators (excluding generating sets)				
15	850161	3,1	1,2	15,6	3,9	0,3
16	850162	6,0	0,9	5,4	7,0	0,1
17	850163	0,5	4,3	2,1	3,1	0,2
18	850164	0,9	52,3	10,9	29,6	0,9
8502		Electric generating sets and rotary converters				
19	850231	0,1	10,1	0,1	0,2	0,2
20	850239	0,5	3,3	3,5	18,7	0,0
8506		Primary cells and primary batteries				
21	850610	20,3	16,6	4,1	11,6	2,9

HS Code		Candidate Countries				
		Brazil	India	Indonesia	Turkey	South Africa
22	850630	0,0	0,0	0,0	0,0	0,0
23	850640	0,0	0,0	0,0	0,0	0,0
24	850650	2,1	2,3	0,0	0,6	0,2
25	850660	0,0	0,0	0,0	0,0	0,0
26	850690	0,0	0,7	1,0	0,0	0,0
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)				
27	850720	45,0	129,4	21,7	40,1	19,0
28	850740	0,0	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17				
29	853710	36,6	85,4	33,2	20,1	5,5
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals				
30	854140	8,6	100,4	13,6	9,2	37,9
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked				
31	900190	1,8	1,2	3,4	4,0	0,1
9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked				
32	900290	0,0	0,3	0,0	0,1	0,0
		Other Products				
2207		Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat				
33	220710	0,0	1,4	0,0	0,0	0,0
3824		Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included				
34	382490	29,5	40,6	33,9	18,9	15,1
8410		Hydraulic turbines, water wheels, and regulators therefor				
35	841011	0,0	0,0	0,9	0,7	0,0
36	841090	30,3	6,0	6,0	20,5	0,0
8411		Turbo-jets, turbo-propellers and other gas turbines				
37	841181	0,0	0,0	0,0	0,0	0,0
38	841182	0,0	0,0	0,0	0,0	0,0
8503		Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02				
39	850300	38,6	324,8	88,8	13,4	20,7
Total Exports		281,6	1 024,5	355,8	245,7	152,7

Source: COMTRADE (accessed through the WITS on October 1, 2011)

**Table 3. Trade with Other Core and Candidate Countries: India (2009)<sup>a</sup>**

**3.1 Imports of SETA Products from the Core and Candidate Countries (mill. US\$)**

HS Code		Core Countries									
		NAFTA	EU27	Chile	Colombia	Peru	Australia	New Zealand	Singapore	Japan	Korea
Products categorized as 'renewable energy' only from the WTO (2011)											
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms										
1	390799	4,5	14,5	0,0	0,0	0,0	0,1	0,0	2,5	2,4	5,6
4016	Other articles of vulcanised rubber other than hard rubber										
2	401699	15,9	51,3	0,0	0,0	0,0	0,2	0,0	6,6	16,2	18,1
4707	Recovered (waste and scrap) paper or paperboard										
3	470710	0,8	0,3	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4	470720	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
5	470730	0,5	0,9	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
6	470790	144,8	127,1	0,1	0,0	0,0	10,5	2,8	5,3	0,4	0,1
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel										
7	730820	0,4	1,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8406	Steam turbines and other vapour turbines										
8	840682	3,3	7,6	0,0	0,0	0,0	0,0	0,0	0,2	23,9	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15										
9	841861	1,1	1,5	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
10	841869	8,7	22,1	0,0	0,0	0,0	0,3	0,0	0,3	0,8	0,6
8419	Machinery, plant or laboratory equipment										
11	841919	0,5	1,4	0,0	0,0	0,0	0,6	0,0	0,0	0,0	0,0
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter										
12	847920	7,5	4,2	0,0	0,0	0,0	0,4	0,0	0,6	1,2	0,2
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)										
13	848340	22,5	145,3	0,0	0,0	0,0	0,8	0,0	1,2	15,0	3,6
14	848360	12,5	43,2	0,0	0,0	0,0	0,0	0,0	1,5	2,8	3,3
8501	Electric motors and generators (excluding generating sets)										
15	850161	0,1	2,4	0,0	0,0	0,0	0,0	0,0	0,1	0,0	0,0
16	850162	0,1	0,9	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
17	850163	0,3	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
18	850164	1,3	7,6	0,0	0,0	0,0	0,0	0,0	0,2	0,0	0,0
8502	Electric generating sets and rotary converters										
19	850231	0,0	0,4	0,0	0,0	0,0	0,0	0,0	0,4	0,0	0,0
20	850239	3,6	11,6	0,0	0,0	0,0	0,0	0,0	6,1	0,7	0,0
8506	Primary cells and primary batteries										
21	850610	0,0	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,2
22	850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
23	850640	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	1,5	0,0
24	850650	1,8	1,0	0,0	0,0	0,0	0,1	0,0	5,1	0,6	3,9
25	850660	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,1	0,0	0,0

HS Code		Core Countries									
		NAFTA	EU27	Chile	Colom-bia	Peru	Austra-lia	New Zealand	Singa-pore	Japan	Korea
26	850690	0,3	0,8	0,0	0,0	0,0	0,0	0,0	0,2	0,1	0,0
	8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)									
27	850720	0,3	0,3	0,0	0,0	0,0	0,0	0,0	1,3	0,7	0,5
28	850740	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17									
29	853710	15,9	57,4	0,0	0,0	0,0	0,1	0,1	3,0	17,8	3,1
	8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals									
30	854140	23,6	184,1	0,0	0,0	0,0	0,4	0,0	6,9	21,1	2,0
	9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked									
31	900190	2,5	8,2	0,0	0,0	0,0	0,0	0,0	0,0	0,2	0,0
	9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked									
32	900290	4,3	2,0	0,0	0,0	0,0	0,1	0,0	0,4	0,8	0,1
Other Products											
	2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat									
33	220710	0,1	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included									
34	382490	57,4	90,6	0,0	0,0	0,0	1,4	0,0	17,0	6,0	1,8
	8410	Hydraulic turbines, water wheels, and regulators therefor									
35	841011	0,1	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
36	841090	0,1	10,5	0,0	0,0	0,0	0,0	1,0	0,0	1,5	1,3
	8411	Turbo-jets, turbo-propellers and other gas turbines									
37	841181	3,5	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,2
38	841182	171,0	27,4	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02									
39	850300	13,7	173,7	0,3	0,0	0,0	0,2	0,0	5,8	19,4	16,4
Total Imports		522,9	999,7	0,4	0,0	0,0	15,1	3,9	64,5	132,9	60,9

HS Code		Candidate Countries				
		Brazil	China	Indonesia	Turkey	South Africa
Products categorized as 'renewable energy' only from the WTO (2011)						
	3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms				
1	390799	0,0	8,4	0,1	0,1	0,0
	4016	Other articles of vulcanised rubber other than hard rubber				
2	401699	1,3	14,9	0,8	0,3	0,0
	4707	Recovered (waste and scrap) paper or paperboard				
3	470710	0,0	0,0	0,0	0,0	0,0
4	470720	0,0	0,0	0,0	0,0	0,0
5	470730	0,0	0,0	0,0	0,0	0,0
6	470790	0,0	0,6	0,5	0,6	0,8

HS Code		Candidate Countries				
		Brazil	China	Indonesia	Turkey	South Africa
7308		Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel				
7	730820	0,0	27,3	0,0	0,3	0,0
8406		Steam turbines and other vapour turbines				
8	840682	0,0	38,3	0,0	0,0	0,0
8418		Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15				
9	841861	0,0	2,7	0,0	0,0	0,0
10	841869	0,0	43,3	0,3	0,0	0,0
8419		Machinery, plant or laboratory equipment				
11	841919	0,0	3,3	0,0	0,0	0,0
8479		Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter				
12	847920	0,0	1,0	0,0	0,1	0,0
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)				
13	848340	0,4	32,9	0,6	0,1	0,2
14	848360	0,2	4,3	0,0	0,1	0,0
8501		Electric motors and generators (excluding generating sets)				
15	850161	0,0	0,4	0,0	0,0	0,0
16	850162	0,1	0,1	0,0	0,0	0,0
17	850163	0,0	1,6	0,0	0,0	0,0
18	850164	2,9	9,0	0,0	0,0	0,0
8502		Electric generating sets and rotary converters				
19	850231	0,0	0,6	0,0	0,0	0,0
20	850239	0,0	13,7	0,0	0,0	0,0
8506		Primary cells and primary batteries				
21	850610	0,0	3,5	0,0	0,0	0,0
22	850630	0,0	0,1	0,0	0,0	0,0
23	850640	0,0	1,0	0,1	0,0	0,0
24	850650	0,0	48,4	2,7	0,0	0,0
25	850660	0,0	0,0	0,0	0,0	0,0
26	850690	0,0	3,8	0,0	0,0	0,0
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)				
27	850720	0,0	72,9	0,0	0,0	0,0
28	850740	0,0	0,1	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17				
29	853710	0,6	24,4	0,0	0,2	0,0
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals				
30	854140	0,0	36,8	0,0	0,0	0,0
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked				
31	900190	0,3	0,6	0,0	0,0	0,0

HS Code	Candidate Countries				
	Brazil	China	Indonesia	Turkey	South Africa
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked				
32 900290	0,0	0,6	0,0	0,0	0,1
Other Products					
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat				
33 220710	23,3	0,2	0,0	0,0	0,0
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included				
34 382490	0,5	20,4	0,5	0,3	0,4
8410	Hydraulic turbines, water wheels, and regulators therefor				
35 841011	0,0	0,5	0,0	0,0	0,0
36 841090	0,7	5,5	0,0	0,0	0,0
8411	Turbo-jets, turbo-propellers and other gas turbines				
37 841181	0,0	2,0	0,0	0,0	0,0
38 841182	0,0	0,6	0,0	0,0	0,0
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02				
39 850300	1,5	74,8	0,8	0,2	0,0
Total Imports	31,6	498,2	6,4	2,3	1,5

### 3.2 Exports of SETA Products to the Core and Candidate Countries (mill. US\$)

HS Code	Core Countries									
	NAFTA	EU27	Chile	Colom-bia	Peru	Austra-lia	New Zealand	Singa-pore	Japan	Korea
Products categorized as 'renewable energy' only from the WTO (2011)										
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms									
1 390799	0,8	1,1	0,0	0,0	0,0	0,1	0,0	4,7	0,1	0,3
4016	Other articles of vulcanised rubber other than hard rubber									
2 401699	11,7	28,3	0,5	0,0	0,0	2,8	0,0	0,7	0,4	0,4
4707	Recovered (waste and scrap) paper or paperboard									
3 470710	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4 470720	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
5 470730	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
6 470790	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel									
7 730820	27,5	2,5	0,0	0,0	0,0	12,4	0,0	0,2	0,0	0,1
8406	Steam turbines and other vapour turbines									
8 840682	0,1	1,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,7
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15									
9 841861	0,0	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
10 841869	1,3	0,9	0,0	0,0	0,0	1,0	0,0	0,2	0,0	0,0
8419	Machinery, plant or laboratory equipment									
11 841919	0,1	0,8	0,0	0,0	0,0	0,0	0,0	0,0	0,4	0,1
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter									
12 847920	0,2	3,7	0,0	0,0	0,0	0,1	0,0	0,2	0,0	0,3

HS Code		Core Countries									
		NAFTA	EU27	Chile	Colom- bia	Peru	Austra- lia	New Zealand	Singa- pore	Japan	Korea
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)									
13	848340	11,2	11,2	0,0	0,0	0,0	0,7	0,0	0,6	0,2	0,0
14	848360	5,5	13,8	0,0	0,0	0,0	0,8	0,0	0,5	1,0	1,7
8501		Electric motors and generators (excluding generating sets)									
15	850161	0,4	4,7	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
16	850162	0,0	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
17	850163	1,5	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,1
18	850164	3,6	9,0	0,0	0,0	0,0	0,5	0,0	0,9	1,7	0,0
8502		Electric generating sets and rotary converters									
19	850231	224,0	4,5	0,0	0,0	0,0	73,1	0,0	0,0	0,0	0,0
20	850239	0,5	0,2	0,0	0,0	0,0	0,0	0,0	6,5	0,0	0,0
8506		Primary cells and primary batteries									
21	850610	0,0	0,3	1,3	0,0	0,0	0,2	0,0	0,0	0,0	0,0
22	850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
23	850640	0,0	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
24	850650	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,4	0,0	0,0
25	850660	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
26	850690	0,2	0,3	0,0	0,0	0,0	0,1	0,0	0,0	0,0	0,0
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)									
27	850720	0,7	2,5	0,1	0,0	0,0	0,6	0,0	0,7	0,0	0,0
28	850740	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17									
29	853710	4,3	10,0	0,1	0,0	0,0	0,2	0,0	2,9	0,4	1,2
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals									
30	854140	14,3	341,0	0,0	0,0	0,0	10,3	0,0	11,3	0,9	0,1
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked									
31	900190	0,5	2,2	0,0	0,0	0,0	0,1	0,0	0,2	0,0	0,0
9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked									
32	900290	0,5	1,4	0,0	0,0	0,0	0,0	0,0	0,2	0,0	0,0
Other Products											
2207		Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat									
33	220710	0,0	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
3824		Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included									
34	382490	5,5	24,4	0,1	0,2	0,1	0,6	0,1	2,1	2,5	0,8
8410		Hydraulic turbines, water wheels, and regulators therefor									
35	841011	0,0	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,1	0,0
36	841090	0,0	3,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8411		Turbo-jets, turbo-propellers and other gas turbines									
37	841181	0,2	2,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
38	841182	0,6	1,7	0,0	0,0	0,0	1,1	0,0	79,0	0,0	0,0



HS Code	Core Countries									
	NAFTA	EU27	Chile	Colombia	Peru	Australia	New Zealand	Singapore	Japan	Korea
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02									
39 850300	51,3	32,5	0,0	0,2	0,0	6,4	0,1	1,8	1,2	0,1
Total Exports	366,5	504,3	2,1	0,4	0,1	111,1	0,2	113,1	8,9	5,9

  

HS Code	Candidate Countries				
	Brazil	China	Indonesia	Turkey	South Africa
Products categorized as 'renewable energy' only from the WTO (2011)					
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms				
1 390799	0,4	1,4	0,2	0,1	0,1
4016	Other articles of vulcanised rubber other than hard rubber				
2 401699	0,0	1,1	0,6	0,2	1,4
4707	Recovered (waste and scrap) paper or paperboard				
3 470710	0,0	0,0	0,0	0,0	0,0
4 470720	0,0	0,0	0,0	0,0	0,0
5 470730	0,0	0,0	0,0	0,0	0,0
6 470790	0,0	0,0	0,0	0,0	0,0
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel				
7 730820	0,0	0,0	0,0	0,0	0,4
8406	Steam turbines and other vapour turbines				
8 840682	0,0	0,0	0,9	0,0	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15				
9 841861	0,0	0,2	0,0	0,0	0,0
10 841869	0,4	0,0	0,5	0,0	0,9
8419	Machinery, plant or laboratory equipment				
11 841919	0,0	0,0	0,1	0,0	0,0
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter				
12 847920	0,0	0,0	0,1	1,9	0,3
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)				
13 848340	0,8	2,0	1,2	1,3	0,4
14 848360	0,5	1,0	0,1	0,0	0,5
8501	Electric motors and generators (excluding generating sets)				
15 850161	0,0	0,0	0,0	0,0	0,2
16 850162	0,0	0,0	0,0	0,0	0,1
17 850163	0,0	0,0	0,0	0,0	0,1
18 850164	0,1	2,5	0,7	0,1	0,2
8502	Electric generating sets and rotary converters				
19 850231	25,1	4,4	0,0	0,0	0,0
20 850239	0,0	0,0	0,4	0,0	0,1
8506	Primary cells and primary batteries				
21 850610	0,0	0,0	0,0	0,0	0,1
22 850630	0,0	0,0	0,0	0,0	0,0
23 850640	0,0	0,0	0,0	0,0	0,0
24 850650	0,0	0,0	0,0	0,0	0,0

HS Code		Candidate Countries				
		Brazil	China	Indonesia	Turkey	South Africa
25	850660	0,0	0,0	0,0	0,0	0,0
26	850690	0,0	0,0	0,0	0,0	0,0
	8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)				
27	850720	0,1	1,4	0,0	0,0	0,2
28	850740	0,0	0,0	0,0	0,0	0,0
	8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17				
29	853710	0,1	0,4	0,9	2,2	1,7
	8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals				
30	854140	0,0	2,5	1,6	0,3	0,2
	9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked				
31	900190	0,0	0,0	0,0	0,1	0,1
	9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked				
32	900290	0,0	0,0	0,0	0,1	0,0
Other Products						
	2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat				
33	220710	0,0	0,0	0,0	0,2	0,0
	3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included				
34	382490	1,5	5,5	1,9	3,1	0,4
	8410	Hydraulic turbines, water wheels, and regulators therefor				
35	841011	0,0	0,0	0,0	0,1	0,0
36	841090	0,1	0,0	0,8	3,3	0,0
	8411	Turbo-jets, turbo-propellers and other gas turbines				
37	841181	0,0	0,0	0,0	0,0	0,0
38	841182	0,0	0,0	0,1	2,2	0,0
	8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02				
39	850300	52,8	16,3	0,3	4,6	1,3
Total Exports		81,9	38,7	10,4	19,8	8,7

Note:

a. Imports and exports are from 2009.

Source: COMTRADE (accessed through the WITS on October 1, 2011)

**Table 3. Trade with Other Core and Candidate Countries: Indonesia (2010)<sup>a</sup>**

**3.1 Imports of SETA Products from the Core and Candidate Countries (mill. US\$)**

HS Code (1996)		Core Countries									
		NAFTA	EU27	Chile	Colom-bia	Peru	Austra-lia	New Zealand	Singa-pore	Japan	Korea
Products categorized as 'renewable energy' only from the WTO (2011)											
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms										
1	390799	0,6	1,9	0,0	0,0	0,0	0,1	0,0	6,0	8,8	27,8
4016	Other articles of vulcanised rubber other than hard rubber										
2	401699	4,4	5,9	0,0	0,0	0,0	1,0	0,0	9,1	49,4	3,1
4707	Recovered (waste and scrap) paper or paperboard										
3	470710	41,9	140,3	0,0	0,0	0,0	21,4	9,9	66,9	0,0	16,7
4	470720	11,7	4,2	0,0	0,0	0,0	0,9	1,0	12,0	0,3	1,2
5	470730	18,3	84,8	0,0	0,0	0,0	16,5	2,8	25,7	3,4	2,2
6	470790	0,4	19,6	0,0	0,0	0,0	1,4	0,3	1,3	4,0	0,1
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel										
7	730820	0,4	1,8	0,0	0,0	0,0	0,6	0,0	0,8	0,1	0,1
8406	Steam turbines and other vapour turbines										
8	840682	5,2	0,7	0,0	0,0	0,0	0,0	0,0	0,4	7,9	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15										
9	841861	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
10	841869	5,9	4,4	0,0	0,0	0,0	0,3	0,0	0,7	2,4	1,6
8419	Machinery, plant or laboratory equipment										
11	841919	0,1	0,3	0,0	0,0	0,0	0,0	0,0	0,2	0,5	0,3
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter										
12	847920	1,2	11,9	0,0	0,0	0,0	0,0	0,0	5,9	2,9	0,3
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)										
13	848340	28,8	29,5	0,0	0,0	0,0	2,3	0,1	23,0	167,2	5,7
14	848360	3,7	8,5	0,0	0,0	0,0	0,6	0,0	4,3	15,6	0,5
8501	Electric motors and generators (excluding generating sets)										
15	850161	1,5	1,3	0,0	0,0	0,0	0,5	0,0	0,3	0,2	0,0
16	850162	0,0	0,1	0,0	0,0	0,0	0,0	0,0	0,2	0,0	0,1
17	850163	0,0	0,5	0,0	0,0	0,0	0,0	0,0	0,3	0,2	0,0
18	850164	0,2	4,7	0,0	0,0	0,0	0,0	0,0	1,2	26,2	0,0
8502	Electric generating sets and rotary converters										
19	850231	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,2	0,0	0,1
20	850239	12,5	14,9	0,0	0,0	0,0	0,0	0,0	1,2	0,7	0,0
8506	Primary cells and primary batteries										
21	850610	0,4	0,0	0,0	0,0	0,0	0,0	0,0	4,5	4,9	0,3
22	850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
23	850640	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
24	850650	0,8	0,2	0,0	0,0	0,0	0,0	0,0	38,4	2,0	0,1
25	850660	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

HS Code (1996)		Core Countries									
		NAFTA	EU27	Chile	Colom-bia	Peru	Austra-lia	New Zealand	Singa-pore	Japan	Korea
26	850690	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,2	5,4	0,1
	8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)									
27	850720	0,4	5,0	0,0	0,0	0,0	0,0	0,0	1,0	0,3	3,1
28	850740	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17									
29	853710	5,9	22,0	0,0	0,0	0,0	1,5	0,0	11,6	29,9	2,0
	8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals									
30	854140	0,6	1,5	0,0	0,0	0,0	0,1	0,0	36,3	7,8	2,7
	9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked									
31	900190	0,2	0,1	0,0	0,0	0,0	0,1	0,0	3,0	5,9	0,1
	9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked									
32	900290	0,3	0,1	0,0	0,0	0,0	4,5	0,0	0,9	1,6	0,1
Other Products											
	2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat									
33	220710	0,0	0,6	0,0	0,0	0,0	0,0	0,0	0,1	0,0	0,0
	3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included									
34	382490	5,7	3,9	0,0	0,0	0,0	0,5	0,0	2,0	1,5	0,7
	8410	Hydraulic turbines, water wheels, and regulators therefor									
35	841011	0,3	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
36	841090	0,1	0,6	0,0	0,0	0,0	0,0	0,0	5,8	1,2	0,1
	8411	Turbo-jets, turbo-propellers and other gas turbines									
37	841181	7,6	1,5	0,0	0,0	0,0	0,1	0,0	0,0	1,2	0,2
38	841182	25,9	12,5	0,2	0,0	0,0	0,0	0,0	7,7	65,4	0,0
	8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02									
39	850300	7,9	53,9	0,0	0,0	0,0	0,4	0,1	14,5	27,4	8,4
Total Imports		193,0	437,3	0,2	0,0	0,0	52,8	14,2	285,7	444,3	77,7

HS Code (1996)		Candidate Countries				
		Brazil	China	India	Turkey	South Africa
Products categorized as 'renewable energy' only from the WTO (2011)						
	3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms				
1	390799	0,0	3,8	0,6	0,0	0,0
	4016	Other articles of vulcanised rubber other than hard rubber				
2	401699	0,1	15,1	2,2	0,0	0,0
	4707	Recovered (waste and scrap) paper or paperboard				
3	470710	0,0	0,0	0,0	4,4	1,4
4	470720	0,0	0,0	0,0	0,1	0,1
5	470730	0,0	0,0	0,0	0,8	1,5
6	470790	0,0	0,0	0,0	0,1	0,0

HS Code (1996)		Candidate Countries				
		Brazil	China	India	Turkey	South Africa
7308		Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel				
7	730820	0,0	6,4	0,0	0,0	0,0
8406		Steam turbines and other vapour turbines				
8	840682	0,0	51,6	1,2	0,0	0,0
8418		Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15				
9	841861	0,0	0,1	0,0	0,0	0,0
10	841869	0,0	11,1	0,1	0,2	0,0
8419		Machinery, plant or laboratory equipment				
11	841919	0,0	16,9	0,1	0,0	0,0
8479		Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter				
12	847920	0,0	4,9	0,3	0,0	0,0
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)				
13	848340	0,3	18,8	3,1	0,0	0,2
14	848360	0,0	16,5	0,9	0,0	0,0
8501		Electric motors and generators (excluding generating sets)				
15	850161	0,0	7,6	0,0	0,0	0,0
16	850162	0,0	3,1	0,0	0,0	0,0
17	850163	0,0	2,3	0,0	0,0	0,0
18	850164	0,0	8,2	0,0	0,0	0,0
8502		Electric generating sets and rotary converters				
19	850231	0,0	0,2	0,0	0,0	0,0
20	850239	0,0	49,1	0,4	0,0	0,0
8506		Primary cells and primary batteries				
21	850610	0,0	51,1	0,0	0,0	0,0
22	850630	0,0	0,0	0,0	0,0	0,0
23	850640	0,0	0,0	0,0	0,0	0,0
24	850650	0,0	0,2	0,0	0,0	0,0
25	850660	0,0	0,0	0,0	0,0	0,0
26	850690	0,0	1,7	0,0	0,0	0,0
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)				
27	850720	0,0	30,3	10,2	0,0	0,0
28	850740	0,0	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17				
29	853710	1,1	78,4	3,9	0,0	0,1
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals				
30	854140	0,0	13,1	0,2	0,0	0,0
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked				
31	900190	0,0	2,3	0,0	0,0	0,0

HS Code (1996)		Candidate Countries				
		Brazil	China	India	Turkey	South Africa
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked					
32	900290	0,0	0,4	0,0	0,0	0,0
Other Products						
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat					
33	220710	0,0	0,0	0,0	0,0	0,0
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included					
34	382490	0,0	3,8	0,2	0,0	0,0
8410	Hydraulic turbines, water wheels, and regulators therefor					
35	841011	0,0	3,1	0,0	0,0	0,0
36	841090	0,0	1,1	0,0	0,0	0,0
8411	Turbo-jets, turbo-propellers and other gas turbines					
37	841181	0,0	0,1	0,0	0,0	0,0
38	841182	0,0	0,0	0,0	0,0	0,0
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02					
39	850300	0,1	35,9	0,0	0,0	0,1
Total Imports		1,6	437,2	23,4	5,6	3,4

### 3.2 Exports of SETA Products to the Core and Candidate Countries (mill. US\$)

HS Code		Core Countries									
		NAFTA	EU27	Chile	Colom-bia	Peru	Austra-lia	New Zealand	Singa-pore	Japan	Korea
Products categorized as 'renewable energy' only from the WTO (2011)											
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms										
1	390799	0,8	0,1	0,0	0,0	0,0	1,3	0,0	0,3	0,0	0,3
4016	Other articles of vulcanised rubber other than hard rubber										
2	401699	8,8	6,7	0,0	0,0	0,0	0,4	0,1	3,0	15,4	0,5
4707	Recovered (waste and scrap) paper or paperboard										
3	470710	0,0	0,0	0,1	0,0	0,0	0,0	0,0	1,9	0,0	0,0
4	470720	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
5	470730	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
6	470790	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,1	0,0	0,0
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel										
7	730820	30,5	3,6	0,0	0,0	0,0	2,6	0,4	5,1	0,0	0,0
8406	Steam turbines and other vapour turbines										
8	840682	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15										
9	841861	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
10	841869	0,0	0,1	0,0	0,0	0,0	0,1	0,0	0,5	0,0	0,0
8419	Machinery, plant or laboratory equipment										
11	841919	0,0	0,0	0,0	0,0	0,0	2,5	0,0	0,0	0,5	0,0
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter										
12	847920	0,0	0,6	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

HS Code	Core Countries									
	NAFTA	EU27	Chile	Colom- bia	Peru	Austra- lia	New Zealand	Singa- pore	Japan	Korea
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)									
13 848340	1,1	1,2	0,0	0,0	0,0	0,1	0,0	23,4	3,0	0,0
14 848360	0,8	0,0	0,0	0,0	0,0	0,0	0,0	1,5	0,6	0,0
8501	Electric motors and generators (excluding generating sets)									
15 850161	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
16 850162	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
17 850163	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,1	0,0	0,0
18 850164	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,1	0,0	0,0
8502	Electric generating sets and rotary converters									
19 850231	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
20 850239	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,2	0,0	0,0
8506	Primary cells and primary batteries									
21 850610	43,9	30,0	2,0	1,5	1,6	5,4	1,3	10,2	17,5	1,7
22 850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
23 850640	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
24 850650	6,7	15,6	0,0	0,0	0,0	0,0	0,0	6,8	8,8	1,3
25 850660	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
26 850690	0,0	0,0	0,0	0,0	0,1	0,0	0,0	0,4	0,0	0,0
8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)									
27 850720	0,0	0,0	0,0	0,0	0,0	0,2	0,0	0,0	0,0	0,0
28 850740	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17									
29 853710	6,1	3,1	0,0	0,0	0,0	0,4	0,0	6,2	0,1	0,0
8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals									
30 854140	0,0	1,4	0,0	0,0	0,0	0,0	0,0	13,7	0,0	0,0
9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked									
31 900190	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,8	0,0	0,0
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked									
32 900290	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,1
Other Products										
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat									
33 220710	0,0	0,0	0,0	0,0	0,0	4,6	0,0	1,3	9,3	0,0
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included									
34 382490	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,5	1,5	0,1
8410	Hydraulic turbines, water wheels, and regulators therefor									
35 841011	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
36 841090	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,1	0,0	0,0
8411	Turbo-jets, turbo-propellers and other gas turbines									
37 841181	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,1	0,0	0,0
38 841182	0,6	3,1	0,0	0,0	0,0	0,0	0,0	5,7	0,0	0,0

HS Code		Core Countries									
		NAFTA	EU27	Chile	Colom- bia	Peru	Austra- lia	New Zealand	Singa- pore	Japan	Korea
8503		Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02									
39	850300	0,2	0,1	0,0	0,0	0,0	0,0	0,0	6,7	12,0	0,1
Total Exports		99,5	65,6	2,1	1,5	1,7	17,6	1,8	88,7	68,7	4,1
HS Code		Candidate Countries									
		Brazil		China		India		Turkey		South Africa	
Products categorized as 'renewable energy' only from the WTO (2011)											
3907		Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms									
1	390799	0,0		0,0		0,1		0,0		0,0	
4016		Other articles of vulcanised rubber other than hard rubber									
2	401699	0,1		4,3		1,3		0,1		0,4	
4707		Recovered (waste and scrap) paper or paperboard									
3	470710	0,0		0,0		0,0		0,0		0,0	
4	470720	0,0		0,0		0,0		0,0		0,0	
5	470730	0,0		0,0		0,0		0,0		0,0	
6	470790	0,0		0,0		0,0		0,0		0,0	
7308		Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel									
7	730820	0,0		39,4		7,5		0,0		0,0	
8406		Steam turbines and other vapour turbines									
8	840682	0,0		0,0		0,0		0,0		0,0	
8418		Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15									
9	841861	0,0		0,0		0,0		0,0		0,0	
10	841869	0,0		0,3		0,1		0,0		0,0	
8419		Machinery, plant or laboratory equipment									
11	841919	0,0		0,0		0,0		0,0		0,0	
8479		Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter									
12	847920	1,2		0,0		0,0		0,0		0,0	
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)									
13	848340	0,0		0,3		0,1		0,0		0,2	
14	848360	0,6		0,1		0,0		0,0		0,0	
8501		Electric motors and generators (excluding generating sets)									
15	850161	0,0		0,0		0,0		0,0		0,0	
16	850162	0,0		0,0		0,0		0,0		0,0	
17	850163	0,0		0,0		0,0		0,0		0,0	
18	850164	0,0		0,0		0,0		0,0		0,0	
8502		Electric generating sets and rotary converters									
19	850231	0,0		0,0		0,0		0,0		0,0	
20	850239	0,0		0,0		0,0		0,0		0,0	
8506		Primary cells and primary batteries									
21	850610	1,6		0,3		0,1		0,2		0,5	
22	850630	0,0		0,0		0,0		0,0		0,0	
23	850640	0,0		0,0		0,0		0,0		0,0	
24	850650	0,9		4,7		0,0		0,0		0,0	
25	850660	0,0		0,0		0,0		0,0		0,0	



HS Code		Candidate Countries				
		Brazil	China	India	Turkey	South Africa
26	850690	0,0	0,0	0,0	0,0	0,0
	8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)				
27	850720	0,0	0,0	0,0	0,0	0,0
28	850740	0,0	0,0	0,0	0,0	0,0
	8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17				
29	853710	0,0	0,3	0,3	0,0	0,0
	8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals				
30	854140	0,0	8,5	0,0	0,0	0,0
	9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked				
31	900190	0,0	0,0	0,0	0,0	0,0
	9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked				
32	900290	0,0	0,4	0,0	0,0	0,0
Other Products						
	2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat				
33	220710	0,0	2,8	0,0	0,0	0,0
	3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included				
34	382490	0,0	1,4	0,2	0,1	0,0
	8410	Hydraulic turbines, water wheels, and regulators therefor				
35	841011	0,0	0,0	0,0	0,0	0,0
36	841090	0,0	0,0	0,0	0,0	0,0
	8411	Turbo-jets, turbo-propellers and other gas turbines				
37	841181	0,0	0,0	0,0	0,0	0,0
38	841182	0,0	0,0	0,0	0,0	0,0
	8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02				
39	850300	0,0	0,4	0,0	0,0	0,0
Total Exports		4,4	63,2	9,7	0,4	1,1

Note:

a. Imports and exports at six digit level of HS 1996.

Source: UN COMTRADE (accessed through the WITS on October 1, 2011)

**Table 3. Trade with Other Core and Candidate Countries: Turkey (2010)**

**3.1 Imports of SETA Products from the Core and Candidate Countries (mill. US\$)**

HS Code		Core Countries									
		NAFTA	EU27	Chile	Colombia	Peru	Australia	New Zealand	Singapore	Japan	Korea
Products categorized as 'renewable energy' only from the WTO (2011)											
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms										
1	390799	3,8	59,8	0,0	0,0	0,0	0,0	0,0	0,0	0,4	10,5
4016	Other articles of vulcanised rubber other than hard rubber										
2	401699	3,3	87,1	0,0	0,0	0,0	0,0	0,0	0,6	4,4	7,0
4707	Recovered (waste and scrap) paper or paperboard										
3	470710	0,0	0,3	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4	470720	0,0	1,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
5	470730	0,0	2,8	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
6	470790	0,1	11,9	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel										
7	730820	0,0	11,3	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8406	Steam turbines and other vapour turbines										
8	840682	0,1	13,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15										
9	841861	1,0	15,9	0,0	0,0	0,0	0,0	0,0	0,0	0,2	0,0
10	841869	8,6	65,8	0,0	0,0	0,0	0,0	0,0	0,1	0,6	1,2
8419	Machinery, plant or laboratory equipment										
11	841919	0,0	3,8	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter										
12	847920	0,0	4,4	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)										
13	848340	10,8	130,4	0,0	0,0	0,0	0,0	0,0	0,2	8,3	7,0
14	848360	3,0	15,2	0,0	0,0	0,0	0,0	0,0	0,0	0,6	0,2
8501	Electric motors and generators (excluding generating sets)										
15	850161	0,6	6,3	0,0	0,0	0,0	0,0	0,0	0,0	0,1	0,7
16	850162	0,7	9,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
17	850163	0,0	8,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
18	850164	34,1	42,9	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,8
8502	Electric generating sets and rotary converters										
19	850231	0,0	404,7	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
20	850239	0,0	120,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	3,1
8506	Primary cells and primary batteries										
21	850610	0,1	17,1	0,0	0,0	0,0	0,0	0,0	0,0	0,2	0,0
22	850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
23	850640	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	1,0	0,0
24	850650	0,3	0,4	0,0	0,0	0,0	0,0	0,0	0,0	0,6	4,4
25	850660	0,2	0,8	0,0	0,0	0,0	0,0	0,0	0,0	0,4	0,1
26	850690	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

HS Code	Core Countries									
	NAFTA	EU27	Chile	Colom-bia	Peru	Austra-lia	New Zealand	Singa-pore	Japan	Korea
8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)									
27 850720	2,1	23,6	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
28 850740	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17									
29 853710	22,3	260,4	0,0	0,0	0,0	0,3	0,2	2,0	15,2	10,3
8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals									
30 854140	2,3	9,2	0,0	0,0	0,0	0,0	0,0	0,0	3,2	2,9
9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked									
31 900190	0,8	2,4	0,0	0,0	0,0	0,0	0,0	0,3	0,0	3,1
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked									
32 900290	0,9	1,0	0,0	0,0	0,0	0,0	0,0	0,3	0,2	0,0
Other Products										
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat									
33 220710	0,6	1,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included									
34 382490	21,5	412,1	0,0	0,0	0,0	0,2	0,0	0,4	5,5	4,9
8410	Hydraulic turbines, water wheels, and regulators therefor									
35 841011	0,0	5,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
36 841090	0,1	53,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,7
8411	Turbo-jets, turbo-propellers and other gas turbines									
37 841181	3,4	1,1	0,0	0,0	0,0	0,0	0,0	0,0	0,3	0,1
38 841182	46,4	151,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,3
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02									
39 850300	3,4	142,7	0,0	0,0	0,0	0,1	0,0	0,0	0,5	0,4
Total Imports	170,5	2 095,3	0,0	0,0	0,0	0,6	0,2	3,9	41,7	57,7

HS Code	Candidate Countries				
	Brazil	China	India	Indonesia	South Africa
Products categorized as 'renewable energy' only from the WTO (2011)					
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms				
1 390799	0,0	4,1	0,4	0,0	0,0
4016	Other articles of vulcanised rubber other than hard rubber				
2 401699	0,4	4,9	7,8	0,1	0,0
4707	Recovered (waste and scrap) paper or paperboard				
3 470710	0,0	0,0	0,0	0,0	0,0
4 470720	0,0	0,0	0,0	0,0	0,0
5 470730	0,0	0,0	0,0	0,0	0,0
6 470790	0,0	0,0	0,0	0,0	0,0
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel				
7 730820	0,0	0,0	0,0	0,0	0,0

HS Code		Candidate Countries				
		Brazil	China	India	Indonesia	South Africa
8406	Steam turbines and other vapour turbines					
8	840682	0,0	12,4	0,0	0,0	0,6
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15					
9	841861	0,0	0,5	0,0	0,0	0,0
10	841869	0,0	31,9	0,0	0,0	0,0
8419	Machinery, plant or laboratory equipment					
11	841919	0,0	9,6	0,0	0,0	0,0
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter					
12	847920	0,0	0,0	0,1	0,0	0,0
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)					
13	848340	0,4	13,7	4,2	0,0	0,0
14	848360	0,0	0,9	1,2	0,0	0,0
8501	Electric motors and generators (excluding generating sets)					
15	850161	0,0	5,1	0,0	0,0	0,0
16	850162	0,0	8,1	0,0	0,0	0,0
17	850163	0,0	3,8	0,0	0,0	0,0
18	850164	2,4	14,3	1,1	0,0	0,0
8502	Electric generating sets and rotary converters					
19	850231	0,0	0,2	0,2	0,0	0,0
20	850239	0,0	337,8	0,0	6,5	0,0
8506	Primary cells and primary batteries					
21	850610	0,0	19,1	0,0	0,8	0,0
22	850630	0,0	0,0	0,0	0,0	0,0
23	850640	0,0	0,0	0,0	0,0	0,0
24	850650	0,0	1,9	0,0	0,2	0,0
25	850660	0,0	1,2	0,0	0,1	0,0
26	850690	0,0	0,0	0,0	0,0	0,0
8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27	850720	0,0	49,6	0,0	0,0	0,0
28	850740	0,0	0,2	0,0	0,0	0,0
8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29	853710	0,5	33,0	0,2	0,3	0,0
8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30	854140	0,0	20,0	0,6	0,0	0,0
9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked					
31	900190	0,0	0,6	0,0	0,0	0,0
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked					
32	900290	0,0	0,9	0,0	0,0	0,0

HS Code	Candidate Countries				
	Brazil	China	India	Indonesia	South Africa
Other Products					
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat				
33 220710	1,0	0,0	0,0	0,0	0,0
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included				
34 382490	0,6	26,0	14,0	1,7	0,2
8410	Hydraulic turbines, water wheels, and regulators therefor				
35 841011	0,0	1,4	0,0	0,0	0,0
36 841090	0,1	14,9	10,2	0,0	0,0
8411	Turbo-jets, turbo-propellers and other gas turbines				
37 841181	0,0	0,4	0,0	0,0	0,0
38 841182	0,0	4,4	0,0	0,0	0,0
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02				
39 850300	4,0	14,2	23,8	0,0	0,0
Total Imports	9,4	635,1	63,8	9,7	0,8

### 3.2 Exports of SETA Products to the Core and Candidate Countries (mill. US\$)

HS Code	Core Countries									
	NAFTA	EU27	Chile	Colom-bia	Peru	Australia	New Zealand	Singa-pore	Japan	Korea
Products categorized as 'renewable energy' only from the WTO (2011)										
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms									
1 390799	1,1	43,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4016	Other articles of vulcanised rubber other than hard rubber									
2 401699	19,7	333,5	0,4	0,6	0,1	0,6	0,0	0,2	0,0	0,8
4707	Recovered (waste and scrap) paper or paperboard									
3 470710	0,0	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4 470720	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
5 470730	0,0	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
6 470790	0,0	0,8	0,0	0,0	0,0	0,1	0,0	0,0	0,0	0,4
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel									
7 730820	0,7	17,0	0,2	0,0	4,5	0,2	0,0	0,0	0,0	0,0
8406	Steam turbines and other vapour turbines									
8 840682	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15									
9 841861	0,0	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
10 841869	0,1	8,6	0,0	0,0	0,0	0,1	0,0	0,0	0,0	0,0
8419	Machinery, plant or laboratory equipment									
11 841919	0,4	13,2	0,0	0,0	0,0	0,4	0,1	0,1	0,0	0,0
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter									
12 847920	0,0	2,6	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

HS Code	Core Countries									
	NAFTA	EU27	Chile	Colombia	Peru	Australia	New Zealand	Singapore	Japan	Korea
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)									
13 848340	9,2	45,5	0,1	0,1	0,1	0,0	0,0	0,0	0,0	0,2
14 848360	0,2	2,4	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8501	Electric motors and generators (excluding generating sets)									
15 850161	0,0	0,4	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
16 850162	0,0	0,6	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
17 850163	0,0	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
18 850164	0,0	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8502	Electric generating sets and rotary converters									
19 850231	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
20 850239	0,0	0,8	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8506	Primary cells and primary batteries									
21 850610	0,0	1,4	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
22 850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
23 850640	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
24 850650	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,1
25 850660	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
26 850690	0,0	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)									
27 850720	0,0	1,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
28 850740	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17									
29 853710	2,7	30,0	0,0	0,0	0,0	0,0	0,0	0,7	0,2	3,7
8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals									
30 854140	0,0	5,7	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked									
31 900190	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked									
32 900290	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Other Products										
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat									
33 220710	0,0	24,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included									
34 382490	0,1	18,7	0,0	0,0	0,0	0,0	0,0	0,1	0,0	0,9
8410	Hydraulic turbines, water wheels, and regulators therefor									
35 841011	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
36 841090	0,0	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8411	Turbo-jets, turbo-propellers and other gas turbines									
37 841181	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
38 841182	0,3	1,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

HS Code	Core Countries									
	NAFTA	EU27	Chile	Colom-bia	Peru	Australia	New Zealand	Singa-pore	Japan	Korea
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02									
39 850300	1,1	50,1	0,0	0,0	0,0	0,2	0,0	0,0	0,2	1,5
Total Exports	35,6	601,6	0,7	0,7	4,7	1,6	0,1	1,1	0,4	7,6

  

HS Code	Candidate Countries				
	Brazil	China	India	Indonesia	South Africa
Products categorized as 'renewable energy' only from the WTO (2011)					
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms				
1 390799	0,0	1,1	0,0	0,0	0,0
4016	Other articles of vulcanised rubber other than hard rubber				
2 401699	1,3	5,3	1,2	0,1	0,9
4707	Recovered (waste and scrap) paper or paperboard				
3 470710	0,0	0,0	0,0	0,0	0,0
4 470720	0,0	0,0	0,0	0,0	0,0
5 470730	0,0	0,0	0,0	0,0	0,0
6 470790	0,0	3,0	1,9	4,7	0,0
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel				
7 730820	0,0	0,0	0,2	0,0	0,2
8406	Steam turbines and other vapour turbines				
8 840682	0,0	0,0	2,2	0,0	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15				
9 841861	0,0	0,0	0,0	0,0	0,0
10 841869	0,0	0,0	0,1	0,0	0,0
8419	Machinery, plant or laboratory equipment				
11 841919	0,0	0,0	0,0	0,0	0,1
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter				
12 847920	0,0	0,0	0,0	0,0	0,0
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)				
13 848340	1,1	0,2	0,4	0,0	0,6
14 848360	0,0	0,1	0,0	0,0	0,0
8501	Electric motors and generators (excluding generating sets)				
15 850161	0,0	0,0	0,0	0,0	0,0
16 850162	0,0	0,0	0,0	0,0	0,0
17 850163	0,0	0,0	0,0	0,0	0,0
18 850164	0,0	0,0	0,0	0,0	0,0
8502	Electric generating sets and rotary converters				
19 850231	0,0	0,0	0,0	0,0	0,0
20 850239	0,0	0,0	0,0	0,0	0,0
8506	Primary cells and primary batteries				
21 850610	0,0	0,0	0,0	0,0	0,0
22 850630	0,0	0,0	0,0	0,0	0,0
23 850640	0,0	0,0	0,0	0,0	0,0
24 850650	0,0	0,0	0,0	0,0	0,0

HS Code		Candidate Countries				
		Brazil	China	India	Indonesia	South Africa
25	850660	0,0	0,0	0,0	0,0	0,0
26	850690	0,0	0,0	0,0	0,0	0,0
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)				
27	850720	0,0	0,0	0,0	0,0	0,0
28	850740	0,0	0,0	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17				
29	853710	0,0	0,2	0,4	0,0	0,1
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals				
30	854140	0,0	0,0	0,0	0,0	0,0
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked				
31	900190	0,0	0,0	0,0	0,0	0,0
9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked				
32	900290	0,0	0,0	0,0	0,0	0,0
Other Products						
2207		Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat				
33	220710	0,0	0,0	0,0	0,0	0,0
3824		Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included				
34	382490	0,0	0,3	0,1	0,0	0,1
8410		Hydraulic turbines, water wheels, and regulators therefor				
35	841011	0,0	0,0	0,0	0,0	0,0
36	841090	0,0	0,0	0,0	0,0	0,0
8411		Turbo-jets, turbo-propellers and other gas turbines				
37	841181	0,0	0,0	0,0	0,0	0,0
38	841182	0,0	0,0	0,0	0,0	0,0
8503		Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02				
39	850300	0,1	0,4	2,5	0,7	0,8
Total Exports		2,5	10,5	9,0	5,5	2,8

Source: COMTRADE (accessed through the WITS on October 1, 2011)



**Table 3. Trade with Other Core and Candidate Countries: South Africa (2010)**

**3.1 Imports of SETA Products from the Core and Candidate Countries (mill. US\$)**

HS Code	Core Countries									
	NAFTA	EU27	Chile	Colom-bia	Peru	Austra-lia	New Zealand	Singa-pore	Japan	Korea
Products categorized as 'renewable energy' only from the WTO (2011)										
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms									
1 390799	1,0	11,8	0,0	0,0	0,0	0,0	0,0	0,1	0,7	0,1
4016	Other articles of vulcanised rubber other than hard rubber									
2 401699	8,0	26,4	0,0	0,0	0,0	0,4	0,1	1,2	3,2	0,3
4707	Recovered (waste and scrap) paper or paperboard									
3 470710	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4 470720	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
5 470730	0,0	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
6 470790	0,0	0,1	0,0	0,0	0,0	0,0	0,0	0,4	0,0	0,0
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel									
7 730820	0,0	0,3	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8406	Steam turbines and other vapour turbines									
8 840682	4,7	2,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15									
9 841861	0,7	11,5	0,0	0,0	0,0	0,1	0,0	0,0	0,0	0,1
10 841869	6,5	20,2	0,0	0,0	0,0	0,2	0,0	0,1	0,4	0,4
8419	Machinery, plant or laboratory equipment									
11 841919	0,4	1,4	0,0	0,0	0,0	2,5	0,0	0,0	0,0	0,0
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter									
12 847920	0,0	3,7	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)									
13 848340	30,3	64,0	0,0	0,0	0,0	1,3	0,0	0,1	6,1	0,4
14 848360	5,9	14,4	0,0	0,0	0,0	0,0	0,0	0,0	0,7	0,8
8501	Electric motors and generators (excluding generating sets)									
15 850161	2,0	1,7	0,0	0,0	0,0	0,0	0,0	0,0	0,1	0,0
16 850162	2,2	0,8	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
17 850163	0,3	3,9	0,0	0,0	0,0	0,0	0,0	0,1	0,0	0,0
18 850164	0,6	3,0	0,0	0,0	0,0	0,0	0,0	0,0	0,2	0,0
8502	Electric generating sets and rotary converters									
19 850231	0,2	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
20 850239	0,2	4,3	0,0	0,0	0,0	0,0	0,0	0,0	0,0	6,8
8506	Primary cells and primary batteries									
21 850610	0,8	0,8	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
22 850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
23 850640	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
24 850650	0,5	0,6	0,0	0,0	0,0	0,0	0,0	0,9	0,6	0,1
25 850660	0,1	0,5	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

HS Code		Core Countries									
		NAFTA	EU27	Chile	Colombia	Peru	Australia	New Zealand	Singapore	Japan	Korea
26	850690	0,0	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)									
27	850720	11,8	9,0	0,0	0,0	0,0	0,0	0,0	0,1	0,0	0,0
28	850740	0,0	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17									
29	853710	24,4	52,2	0,0	0,0	0,0	0,9	0,1	0,1	3,2	0,7
	8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals									
30	854140	3,0	54,5	0,0	0,0	0,0	0,1	0,0	0,0	1,1	2,5
	9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked									
31	900190	0,7	1,3	0,0	0,0	0,0	0,0	0,0	0,2	0,2	0,0
	9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked									
32	900290	0,4	0,5	0,0	0,0	0,0	0,0	0,0	0,1	0,4	0,0
Other Products											
	2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat									
33	220710	0,0	0,9	0,0	0,0	0,0	0,8	0,0	0,0	0,0	0,0
	3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included									
34	382490	16,3	85,7	0,0	0,0	0,0	0,5	0,0	0,7	5,0	1,6
	8410	Hydraulic turbines, water wheels, and regulators therefor									
35	841011	0,0	0,6	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
36	841090	0,0	0,6	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	8411	Turbo-jets, turbo-propellers and other gas turbines									
37	841181	1,9	1,6	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
38	841182	1,8	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02									
39	850300	13,5	14,4	0,0	0,0	0,0	0,1	0,0	0,0	0,5	0,1
Total Imports		138,4	393,3	0,0	0,0	0,0	6,9	0,2	4,1	22,4	13,9

HS Code		Candidate Countries				
		Brazil	China	India	Indonesia	Turkey
Products categorized as 'renewable energy' only from the WTO (2011)						
	3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms				
1	390799	0,0	1,1	0,3	0,0	0,1
	4016	Other articles of vulcanised rubber other than hard rubber				
2	401699	0,9	5,4	2,1	0,1	0,5
	4707	Recovered (waste and scrap) paper or paperboard				
3	470710	0,0	0,0	0,0	0,0	0,0
4	470720	0,0	0,0	0,0	0,0	0,0
5	470730	0,0	0,0	0,0	0,0	0,0
6	470790	0,0	0,2	0,1	0,0	0,0

HS Code		Candidate Countries				
		Brazil	China	India	Indonesia	Turkey
7308		Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel				
7	730820	0,0	2,3	6,0	0,0	0,0
8406		Steam turbines and other vapour turbines				
8	840682	0,0	0,0	0,0	0,0	0,0
8418		Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15				
9	841861	0,0	4,0	0,0	0,0	0,0
10	841869	0,1	12,4	0,2	0,0	0,0
8419		Machinery, plant or laboratory equipment				
11	841919	0,1	10,5	0,0	0,0	0,0
8479		Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter				
12	847920	0,0	0,9	4,0	0,0	0,0
8483		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)				
13	848340	0,5	8,3	1,5	0,0	0,4
14	848360	0,2	1,9	0,4	0,0	0,0
8501		Electric motors and generators (excluding generating sets)				
15	850161	0,0	1,6	0,3	0,0	0,0
16	850162	0,0	0,5	0,2	0,0	0,0
17	850163	0,0	0,4	0,4	0,0	0,0
18	850164	0,7	0,1	0,5	0,0	0,0
8502		Electric generating sets and rotary converters				
19	850231	0,0	0,3	0,0	0,0	0,0
20	850239	0,0	0,5	0,0	0,0	0,0
8506		Primary cells and primary batteries				
21	850610	0,0	1,0	0,0	0,3	0,0
22	850630	0,0	0,0	0,0	0,0	0,0
23	850640	0,0	0,0	0,0	0,0	0,0
24	850650	0,0	1,1	0,0	0,4	0,0
25	850660	0,0	0,1	0,0	0,0	0,0
26	850690	0,0	0,1	0,0	0,0	0,0
8507		Electric accumulators, including separators therefor, whether or not rectangular (including square)				
27	850720	2,7	17,0	1,1	0,0	0,0
28	850740	0,0	0,2	0,0	0,0	0,0
8537		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17				
29	853710	0,5	6,2	1,0	0,0	0,1
8541		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals				
30	854140	0,2	30,5	7,2	0,0	0,0
9001		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked				
31	900190	0,0	0,2	0,1	0,0	0,0

HS Code		Candidate Countries				
		Brazil	China	India	Indonesia	Turkey
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked					
32	900290	0,0	0,4	0,0	0,0	0,1
Other Products						
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat					
33	220710	4,5	0,0	1,8	0,0	0,0
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included					
34	382490	0,4	12,5	2,4	0,1	0,0
8410	Hydraulic turbines, water wheels, and regulators therefor					
35	841011	0,0	0,0	0,0	0,0	0,0
36	841090	0,0	0,0	0,0	0,0	0,0
8411	Turbo-jets, turbo-propellers and other gas turbines					
37	841181	0,0	0,0	0,0	0,0	0,0
38	841182	0,0	0,0	0,0	0,0	0,0
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02					
39	850300	9,3	2,3	2,2	0,0	0,0
Total Imports		20,1	122,0	31,8	0,9	1,2

### 3.2 Exports of SETA Products to the Core and Candidate Countries (mill. US\$)

HS Code		Core Countries									
		NAFTA	EU27	Chile	Colom-bia	Peru	Australia	New Zealand	Singa-pore	Japan	Korea
Products categorized as 'renewable energy' only from the WTO (2011)											
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms										
1	390799	0,0	0,1	0,0	0,0	0,0	0,1	0,0	0,0	0,0	0,0
4016	Other articles of vulcanised rubber other than hard rubber										
2	401699	0,7	1,5	0,0	0,0	0,0	0,1	0,0	0,0	0,1	0,0
4707	Recovered (waste and scrap) paper or paperboard										
3	470710	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,1
4	470720	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
5	470730	0,0	0,0	0,0	0,0	0,0	0,2	0,0	0,2	0,0	0,4
6	470790	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel										
7	730820	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8406	Steam turbines and other vapour turbines										
8	840682	0,4	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15										
9	841861	0,0	0,0	0,0	0,0	0,0	0,4	0,0	0,0	0,0	0,0
10	841869	0,0	0,7	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8419	Machinery, plant or laboratory equipment										
11	841919	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

HS Code	Core Countries									
	NAFTA	EU27	Chile	Colom-bia	Peru	Australia	New Zealand	Singa-pore	Japan	Korea
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter									
12 847920	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)									
13 848340	1,8	1,9	0,0	0,0	0,0	0,5	0,0	0,1	0,0	0,0
14 848360	0,4	0,5	0,0	0,0	0,0	0,2	0,0	0,0	0,0	0,0
8501	Electric motors and generators (excluding generating sets)									
15 850161	0,1	0,1	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0
16 850162	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
17 850163	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
18 850164	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8502	Electric generating sets and rotary converters									
19 850231	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
20 850239	0,0	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8506	Primary cells and primary batteries									
21 850610	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
22 850630	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
23 850640	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
24 850650	0,4	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
25 850660	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
26 850690	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)									
27 850720	0,2	1,9	0,0	0,0	0,0	0,7	0,0	0,4	0,0	0,0
28 850740	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17									
29 853710	2,4	9,7	0,0	0,0	0,0	0,2	0,0	0,4	0,2	0,0
8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals									
30 854140	0,0	152,0	0,0	0,0	0,0	0,3	0,0	0,0	0,0	0,1
9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked									
31 900190	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked									
32 900290	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Other Products										
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat									
33 220710	18,8	10,3	0,1	0,0	0,0	0,0	0,1	7,1	0,0	0,4
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included									
34 382490	2,0	8,0	0,0	0,3	0,7	1,5	0,1	0,4	1,0	0,1
8410	Hydraulic turbines, water wheels, and regulators therefor									
35 841011	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

HS Code		Core Countries									
		NAFTA	EU27	Chile	Colom-bia	Peru	Australia	New Zealand	Singa-pore	Japan	Korea
36	841090	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	8411	Turbo-jets, turbo-propellers and other gas turbines									
37	841181	0,0	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
38	841182	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02									
39	850300	0,8	2,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Total Exports		28,2	189,2	0,2	0,3	0,7	4,2	0,2	8,6	1,3	1,1

HS Code		Candidate Countries				
		Brazil	China	India	Indonesia	Turkey
Products categorized as 'renewable energy' only from the WTO (2011)						
	3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms				
1	390799	0,0	0,0	0,0	0,0	0,0
	4016	Other articles of vulcanised rubber other than hard rubber				
2	401699	0,6	0,1	0,0	0,1	0,1
	4707	Recovered (waste and scrap) paper or paperboard				
3	470710	0,0	0,0	0,0	0,0	0,0
4	470720	0,0	0,0	0,0	0,0	0,0
5	470730	0,0	0,0	0,2	1,1	0,0
6	470790	0,0	0,0	0,0	0,0	0,0
	7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel				
7	730820	0,0	0,0	0,1	0,0	0,0
	8406	Steam turbines and other vapour turbines				
8	840682	0,0	0,0	0,0	0,0	0,0
	8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15				
9	841861	0,0	0,0	0,0	0,0	0,0
10	841869	0,0	0,0	0,0	0,0	0,0
	8419	Machinery, plant or laboratory equipment				
11	841919	0,0	0,0	0,0	0,0	0,0
	8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter				
12	847920	0,0	0,0	0,0	0,0	0,0
	8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)				
13	848340	0,0	0,1	0,0	0,0	0,1
14	848360	0,0	0,0	0,0	0,0	0,0
	8501	Electric motors and generators (excluding generating sets)				
15	850161	0,0	0,0	0,0	0,0	0,0
16	850162	0,0	0,0	0,0	0,0	0,0
17	850163	0,0	0,0	0,0	0,0	0,0
18	850164	0,0	0,0	0,0	0,0	0,0
	8502	Electric generating sets and rotary converters				
19	850231	0,0	0,0	0,0	0,0	0,0
20	850239	0,0	0,0	0,0	0,0	0,0

HS Code		Candidate Countries				
		Brazil	China	India	Indonesia	Turkey
8506	Primary cells and primary batteries					
21	850610	0,0	0,0	0,0	0,0	0,0
22	850630	0,0	0,0	0,0	0,0	0,0
23	850640	0,0	0,0	0,0	0,0	0,0
24	850650	0,0	0,0	0,0	0,0	0,0
25	850660	0,0	0,0	0,0	0,0	0,0
26	850690	0,0	0,0	0,0	0,0	0,0
8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)					
27	850720	0,0	0,0	0,0	0,0	0,0
28	850740	0,0	0,0	0,0	0,0	0,0
8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17					
29	853710	0,2	0,6	0,2	0,1	0,0
8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals					
30	854140	0,0	0,0	0,0	0,0	0,0
9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked					
31	900190	0,0	0,0	0,0	0,0	0,0
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked					
32	900290	0,0	0,0	0,0	0,0	0,0
Other Products						
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat					
33	220710	0,0	0,0	0,1	0,0	0,0
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included					
34	382490	0,6	0,9	0,4	3,1	0,1
8410	Hydraulic turbines, water wheels, and regulators therefor					
35	841011	0,0	0,0	0,0	0,0	0,0
36	841090	0,1	0,0	0,0	0,0	0,0
8411	Turbo-jets, turbo-propellers and other gas turbines					
37	841181	0,0	0,0	0,0	0,0	0,0
38	841182	0,0	0,0	0,0	0,0	0,0
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02					
39	850300	0,3	0,0	0,0	0,1	0,0
Total Exports		1,8	1,7	1,0	4,5	0,3

Source: UN COMTRADE (accessed through the WITS on October 1, 2011)

**Table 4. Trade of All 39 SETA Products between Selected Countries (2010)<sup>a</sup>**

	Core Countries										"Imports from core"
	NAFTA	EU 27	Chile	Colombia	Peru	Australia	"New Zealand"	Singapore	Japan	Korea	
NAFTA		7 918	3	7	3	41	7	484	3 250	551	12 264
EU 27	5 491		1	12	6	86	11	135	3 153	1 628	10 523
Chile <sup>b</sup>	264	279		1	1	8	0	3	86	49	690
Colom-bia	189	80	1		13	0	0	3	4	3	293
Peru	167	75	13	23		1	0	2	4	2	289
Australia	656	569	1	0	0		27	59	239	46	1 596
"New Zealand"	66	73	0	0	0	33		4	23	10	211
Singapore	876	673	0	0	0	13	6		366	51	1 986
Japan	1 220	843	0	0	0	3	1	41		501	2 608
Korea <sup>b</sup>	870	1 529	0	0	0	8	1	49	2 793		5 250
Exports to core	9 799	12 040	19	44	23	194	53	780	9 917	2 842	35 710
Brazil	621	977	2	0	0	5	1	20	183	68	1 878
China	4 962	6 123	0	0	0	204	17	652	7 546	2 620	22 125
India <sup>b</sup>	523	1 000	0	0	0	15	4	65	133	61	1 800
Indonesia	193	437	0	0	0	53	14	286	444	78	1 505
Turkey	170	2 095	0	0	0	1	0	4	42	58	2 370
"South Africa"	138	393	0	0	0	7	0	4	22	14	579
Exports to candidates	6 607	11 026	3	0	0	285	36	1 031	8 370	2 899	30 257
Exports (core + candi-dates)	16 406	23 065	22	44	23	478	90	1 810	18 288	5 740	65 967



	Candidate Countries							Imports from candidates	"Imports (core + candidates)"
	Brazil	China	India	Indonesia	Turkey	"South Africa"			
NAFTA	520	5 530	454	144	18	44	6 710	18 974	
EU 27	337	18 396	734	326	328	199	20 320	30 843	
Chile <sup>b</sup>	64	59	1	7	0	2	134	824	
Colombia	32	35	28	3	0	0	98	391	
Peru	19	31	11	2	4	1	69	358	
Australia	13	1 046	79	21	2	10	1 170	2 766	
"New Zealand"	3	36	1	3	0	2	45	256	
Singapore	20	457	27	219	0	9	733	2 719	
Japan	288	2 457	12	156	6	3	2 923	5 531	
Korea <sup>b</sup>	53	1 243	16	43	0	1	1 357	6 607	
Exports to core	1 349	29 290	1 364	924	358	272	33 558	69 268	
Brazil		390	156	7	5	2	559	2 437	
China	24		104	192	17	23	359	22 484	
India <sup>b</sup>	32	498		6	2	2	540	2 340	
Indonesia	2	437	23		6	3	471	1 976	
Turkey	9	635	64	10		1	719	3 089	
"South Africa"	20	122	32	1	1		176	755	
Exports to candidates	87	2 082	379	216	30	30	2 824	33 081	
Exports (core + candidates)	1 436	31 373	1 743	1 140	388	302	36 382	102 349	

Notes:

a. Rows are imports and columns are exports.

b. Data for year 2009

Source: UN COMTRADE (accessed through the WITS on October 3, 2011)

**Table 5. Some Cases of LCRs in Place (as of January 2012)**

Country/Province	Project/Program	Description
"United States/ Ohio"	Renewable energy in general	Mandating half of its renewable energy to be supplied through in-state production
"United States/ Colorado, Missouri "	Renewable energy in general	Applying a 1.25 multiplier to renewable energy certificates produced from in-state resources
"Canada/ Ontario"	"Solar and wind projects (Green Energy and Green Economy Act 2009)"	Requiring, from 2009-2011, 25% of costs for wind projects to be local and 50% of solar projects. From 2012 onward, these restrictions increase to 50% and 60% respectively to benefit from FIT program
"Canada/ Quebec"	Calls for tenders for the creation of wind farms	Requiring wind farms be located in the Gaspesie region of the province with regional content requirement of 30 % minimum
Italy	"Solar ContoEnergia 4 (solar subsidy law, approved in May2011) "	Offering PV projects that contain at least 60 % of local content with an additional 5-10 percent premium over normal FIT rates
India	"Solar Jawaharlal Nehru National Solar Mission (JNNSM, launched in 2010)"	Mandating cells and modules for solar PV projects based on crystalline silicon to be manufactured in India and for solar thermal, mandated 30% project to have domestic content to benefit from FIT program
Portugal	Wind tender	Awarding contracts only to bidders engaged in research collaborations with local universities
Ukraine	"Renewable energy in general (Law of Ukraine on the Electric Power Industry, passed in June 2011)"	Requiring producers of electricity from renewable energy sources to meet a certain share of materials, works and/or services of Ukrainian origin that is used to construct a power plant in order to benefit from FIT program

Sources: Global Trade Alert website and various sources

**Table 6. Top 10 Solar PV Cell / Wind Turbine Manufacturers, 2010 (market share %)**

Solar PV Cell			Wind Turbine		
	Company (country)	Share		Company (country)	Share
1	Suntech Power (China)	7%	1	Vestas (Denmark)	14%
2	JA Solar (China)	6%	2	Sinovel (China)	11%
3	First Solar (USA)	6%	3	GE Wind (USA)	9%
4	Yingli Green Energy (China)	5%	4	Goldwind (China)	9%
5	Trina Solar (China)	5%	5	Enercon (Germany)	7%
6	Q-Cells (Germany)	4%	6	Suzlon Group (India)	7%
7	Kyocera (Japan)	3%	7	Dongfang (China)	7%
8	Motech (Taiwan)	3%	8	Gamesa (Spain)	6%
9	Sharp (Japan)	3%	9	Siemens Wind Power (Denmark)	6%
10	Gintech (Taiwan)	3%	10	United Power (China)	4%
Total		42%	Total		80%

Source: REN 21 (2011)

# Appendix B

**Table 1: Trade of APEC 50 EGs (2010)<sup>a</sup>**

	Exports of APEC EGs to APEC		Imports of APEC EGs from World	
	US\$ (mill.)	% of Total Exports to APEC	US\$ (mill.)	% of Total Imports from World
Australia	916,7	0,6	5 530,5	2,9
Brunei Darussalam <sup>b</sup>	n.a	n.a	n.a	n.a
Canada	4 073,2	1,3	9 175,1	2,4
Chile	40,5	0,1	1 020,1	1,7
China	15 831,5	1,7	49 249,7	3,8
Hong Kong	109,8	1,2	9 077,2	2,1
Indonesia	223,1	0,2	3 206,4	2,4
Japan	37 065,0	6,9	13 353,3	1,9
Korea, Rep	9 455,5	3,1	24 432,6	5,7
Malaysia	2 968,8	2,2	5 040,3	3,1
Mexico	5 632,4	2,2	8 304,4	2,8
New Zealand	94,4	0,5	500,3	1,7
Papua New Guinea <sup>b</sup>	n.a	n.a	n.a	n.a
Peru	4,1	0,0	553,3	1,8
Philippines	273,4	0,7	1 275,2	2,2
Russia	185,7	0,3	7 182,7	2,9
Singapore	9 846,6	3,9	10 755,8	3,5
Taipei b)	n.a	n.a	n.a	n.a
Thailand	1 667,5	1,3	4 662,9	2,6
United States	26 634,5	4,1	39 881,6	2,0
Viet Nam	195,7	0,4	1 993,4	2,3
Total	115 218,4	2,9	195 194,8	2,8

Notes :

a) While the original APEC EG list contains 54 products at HS 6 digit levels, we only include 50 products (48 from the HS 2002 and 2 from HS 2007) here since 4 products identified in the APEC list are from the HS 2012 which trade data is not available in UN Comtrade.

b) Trade data from HS 2002 not available

Source: COMTRADE (accessed through the WITS on September 20, 2012)

**Table 2: Comparison of SETA, World Bank and APEC Lists**

HS Code		Description	“World Bank (43 products, 2007)”	“APEC (54 products, 2012)”
Products categorized as ‘renewable energy’ only from the WTO (2011)				
3907	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms			
1	390799	Other polyesters: Other		
4016	Other articles of vulcanised rubber other than hard rubber			
2	401699	Other: other		
4707	Recovered (waste and scrap) paper or paperboard			
3	470710	Recovered (waste & scrap) unbleached kraft paper/ paperboard/corrugated paper/paperboard		
4	470720	Other paper or paperboard made mainly of bleached chemical		
5	470730	Paper or paperboard made mainly of mechanical pulp (for example, newspapers, journals and similar printed matter)		
6	470790	Other, including unsorted waste and scrap		
7308	Structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge sections, lock gates, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, shutters, balustrades, pillars and columns), of iron or steel; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures, of iron or steel			
7	730820	Towers & lattice masts	o	
8406	Steam turbines and other vapour turbines			
8	840682	Other turbines of an output not exceeding 40MW		
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 84.15			
9	841861	Other refrigerating or freezing equipment, heat pumps: Compression-type units whose condensers are heat exchangers	o	
10	841869	Other refrigerating or freezing equipment heat pumps: Parts	o	
8419	Machinery, plant or laboratory equipment			
11	841919	Instantaneous or storage water heaters, non-electric: Other	o	o
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter			
12	847920	Machinery for the extraction or preparation of animal or fixed vegetable fats or oils		
8483	Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)			
13	848340	Gears, gearing (excluding toothed wheels, chain sprockets and other transmission elements presented separately); ball or roller screws; gear boxes, other speed changers, including torque converters	o	
14	848360	Clutches & shaft couplings (incl. universal joints)	o	
8501	Electric motors and generators (excluding generating sets)			
15	850161	AC generators (alternators), of an output not exceeding 75 Kva	o	
16	850162	AC generators (alternator), of an output exceeding 75 kVA but not exceeding 375 kVA	o	
17	850163	AC generators (alternator), of an output exceeding 375 kVA but not exceeding 750 kVA	o	
18	850164	AC generators (alternator), of an output exceeding 750 kVA	o	o

**Table 2: Comparison of SETA, World Bank and APEC Lists**

HS Code		Description	"World Bank (43 products, 2007)"	"APEC (54 products, 2012)"
8502	Electric generating sets and rotary converters			
19	850231	Other generating sets: Wind-powered	o	o
20	850239	Other generating sets: other		o
8506	Primary cells and primary batteries			
21	850610	Primary cells & primary batteries, manganese dioxide		
22	850630	Primary cells & primary batteries, mercuric oxide		
23	850640	Primary cells & primary batteries, silver oxide		
24	850650	Primary cells & primary batteries, lithium		
25	850660	Primary cells & primary batteries, air-zinc		
26	850690	Parts		
8507	Electric accumulators, including separators therefor, whether or not rectangular (including square)			
27	850720	Other lead – Acid accumulators	o	
28	850740	Nickel-iron		
8537	Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17			
29	853710	For a voltage not exceeding 1,000 V	o	
8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals			
30	854140	Photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes.	o	o
9001	Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked			
31	900190	other	o	
9002	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked			
32	900290	other	o	
<b>Other Products<sup>c</sup></b>				
2207	Ethyl alcohol, undenat, n/un 80% alc, alcohol, denat <sup>d</sup>			
33	220710	Undenatured ethyl alcohol of an alcoholic strength		
3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included			
34	382490	Other <sup>e</sup>		
8410	Hydraulic turbines, water wheels, and regulators therefor			
35	841011	Hydraulic turbines and water wheels of a power not exceeding 1,000 kW .	o	
36	841090	Parts, including regulators	o	
8411	Turbo-jets, turbo-propellers and other gas turbines			
37	841181	Other gas turbines of a power not exceeding 5,000 kW	o	
38	841182	Other gas turbines of a power exceeding 5,000 kW	o	o
8503	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02			
39	850300	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02.		o

Sources: For the World Bank list, see World Bank (2007). The APEC list is available at [http://www.apec.org/Press/News-Releases/2012/~/\\_link.aspx?\\_id=357A0FFAFA184C278FC840F9F6E9DF36&\\_z=z](http://www.apec.org/Press/News-Releases/2012/~/_link.aspx?_id=357A0FFAFA184C278FC840F9F6E9DF36&_z=z).



