APPENDIX 12

APEC ENVIRONMENTAL GOODS AND SERVICES WORK PROGRAM

In Sydney in 2007 APEC Leaders committed, through wide-ranging and ambitious actions, as set out in the Sydney Action Agenda, "to ensuring the energy needs of the economies whilst addressing the issue of environmental quality and contributing to the reduction of greenhouse gas emissions." Leaders also affirmed that "An open global trade and investment system is central to our clean development objectives and market opening in the World Trade Organization (WTO) would advance our climate and energy security goals." and recognized that "Joint research, development, deployment and transfer of low and zero emission technologies will be crucial in our shared efforts to address climate change."

- 2. The 2007 Leader's Action Agenda included co-operative actions and initiatives designed to achieve an objective of supporting economic growth and development of the Asia Pacific region and to further contribute to the reduction of global greenhouse gas emissions.
- 3. The Committee on Trade and Investment (CTI) has worked since then to address Leaders' instructions, including by developing an EGS work program as a contribution to APEC's broader objective of promoting sustainable economic growth in the region. Central to the CTI's work in this area is the recognition that an open global trade and investment system is necessary for the dissemination and increased utilization of EGS, and that this would be part of APEC's contribution to global development, economic, and environment objectives.
- 4. The APEC EGS Programme Framework was endorsed by Ministers at the 2008 AMM. The objectives of the Framework are to support the development of the EGS sector in APEC and to provide a coherent setting for the work under way in various APEC bodies. The Framework has four components: (a) research and development, (b) supply, (c) trade and (d) demand. The full description of the four framework components is as follows:
 - a. **Research and development:** For both goods and services, this refers to developing new and better EGS through innovation and R&D which address not only trade in EGS but also environment and development (i.e. rural development, job creation and applied technology). APEC economies can share ideas and best practices on innovation and R&D programmes that spur the development of EGS.
 - b. Supply: For goods, this includes the incorporation of cleaner, more resource and energy efficient technologies. For services, this includes the training of skilled personnel. Both entail a need for more focus and investment in the EGS industry. APEC economies can explore ways to facilitate investment in EGS and share best practices in developing the EGS industry sector.
 - c. Trade: This component aims to improve trade in EGS through trade facilitation and trade liberalisation. For the former, APEC MAG (Market Access Group)/GOS (Group on Services) have been developing projects that facilitate trade in EGS. For trade liberalisation, this component adheres to the Doha Para 31(iii) mandate. Recognising that the negotiations will be done in the WTO, APEC MAG/GOS can come up with ways to support the negotiations in the WTO.
 - d. **Demand**: An increase in demand will create incentive for the market to increase R&D and investment in EGS. APEC economies can look into sharing best practices in public education on EGS and pro-EGS consumer policies, such as measuring and showing the impact of EGS on the environment.

- 5. In July 2009 APEC Ministers Responsible for Trade (MRT) welcomed the progress made so far in the development of an APEC work program for EGS (environmental goods and services) as set out in the EGS Framework. They instructed officials to finalise the work program for consideration by the 2009 APEC Ministerial Meeting (AMM).
- 6. Consequently, CTI tasked the Market Access Group (MAG) to conduct a Mapping Exercise, which identified the work streams relevant to the EGS Framework currently underway across APEC fora and sub-fora. The Mapping Matrix is appended here as Annex 1. It includes activities and projects initiated or under way in 2009. To allow for improved oversight by APEC economies of the myriad of initiatives underway in APEC in this area, and to identify areas of potential collaboration, the Mapping Matrix will be updated regularly by the APEC Secretariat. Keeping the Mapping Matrix up-to-date will also help us to prevent duplication of resources across APEC fora and sub-fora.
- 7. Based on the results of the mapping exercise, APEC members agreed to take the following actions in order to support sustainable economic growth in the region, advance APEC's work to increase utilization of EGS, reduce barriers to trade and investment in EGS and enhance the capabilities of members to develop their EGS sectors:
 - Launch and continue to contribute to the Environmental Goods and Services Information Exchange (EGSIE), a Web site that will serve as a foundation for future work on EGS in APEC, and will promote greater transparency, information-sharing, collaboration, and dissemination of EGS in the APEC region and globally.
 - Identify a "package" of follow-up actions that would enable economies to enhance their sustainable economic development and contribute to the growth of the APEC region. Three key aspects of this would be an identification of: (1) goods and services for which, via increased utilization, an economy would be able to contribute towards climate change mitigation as well as sustainable economic development; (2) concrete steps to facilitate the diffusion of climate friendly and other EGS technologies so as to increase the capabilities of economies to maintain sustainable growth; and (3) capacity-building activities to help ensure that APEC economies, especially developing economies, are able to cultivate and further develop their EGS sectors and meet their sustainable growth goals, including identifying areas of technology transfer of interest to economies and initiating a series of case studies so as to better understand the needs of developing economies in this area.
 - Promote greater dissemination and utilization of EGS by raising awareness of the
 differing economic conditions and resultant needs of economies; undertaking work to
 address non-tariff barriers and enhance market drivers to environmental goods through
 close cooperation among relevant fora, such as local content requirements; explore
 greater harmonization and convergence of standards, particularly in the area of energy
 efficiency; facilitate investment in the EGS sector; and
 - Improve understanding and market access for environmental services and services relevant to climate change mitigation.

APEC EGS Projects Mapping**

At MRT this year, Ministers agreed that APEC could make an important contribution to the success of the Copenhagen Conference by exploring ways to reduce barriers to trade and investment in environmental goods and services (EGS), in particular those goods and services that contribute to the success of our climate change efforts. Ministers also instructed officials to finalize the EGS work programme for consideration by AMM 2009.

The matrix below is a list of EGS projects which are being developed by APEC fora and help make EGS more available in the APEC region. The matrix presupposes that there is no definition of EGS. The categories utilised in this matrix are intended as broad examples only. It will be provided by MAG to CTI Chair for consideration in her drafting up an EGS work programme.

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories [*]	Work Program Component [†]	Status
сомі	PLETED PROJECTS:#						
1.	EWG, EGEE&C	Energy-Saving Windows: Survey of Policies and Programs to Promote Advanced Window and Glazing Technologies in APEC Economies	To compile information on recent efforts to reduce building energy use through advanced windows and glazing technologies in APEC economies. By assessing the current market status of energy-saving windows and barriers to their increased use, the project will also help guide decisions on new policies or programs to promote them.	US	(i)technology (ii)energy efficiency (iii)climate change	Supply; Demand; Trade	Completed.

^{*} Some broad categories of EGS, which the project could help increase the use of, include: (i) environmentally friendly technology goods and services (technology); (ii) energy efficiency goods and services (energy efficiency); (iii) environmental goods and services necessary or desirable for climate change mitigation and adaption (climate change); (iv) clean air; (v) clean water and (vi) others (eg renewable energy, waster water management, environmental monitoring, analysis and assessment equipment).

[†] The EGS Work Programme framework endorsed by Ministers in 2008 uses the basic value-chain of EGS as a framework to holistically address all aspects of EGS. Four components set out by the framework are: R&D, Supply, Trade and Demand.

[#] Completed projects since the 11 May 2011 version of the matrix. Please see the 11 May version for the full list of completed projects since the inception of the matrix up till 11 May 2011.

^{**} This revised matrix is as of 11 September 2011. Changes made since the 11 May 2011 version are marked in red bold text.

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories*	Work Program Component [†]	Status
2.	ATC	APEC-ATCWG Biofuels Network Annual Symposium and Biotrade/Technical Training Workshop	Aims to strengthen and expand the established APEC biofuels network by setting up a biofuels symposium on an annual basis to stress the importance of the second and third generation biofuels research development. Would also serve to provide an update on the progress on technical, economic, and environmental information and experiences regarding the bioconversion of agricultural and agroindustrial wastes to biofuels among APEC member economies by concentrating on biofuels regulatory cooperation.	Thailand	(i) Technology (ii) energy efficiency	R&D	Symposium was held in May 2011. (ATC08/2010)
3.	GOS	Trade Policy Dialogue on Environmental Services		GOS Convenor		Supply; Trade; Demand	Held on 9 May, Big Sky, Montana
4.	scsc	6 th Conference on Good Regulatory Practice	To share experiences among APEC members, incl: Private Business and International organizations on advances to date in improving regulatory practices, with a goal of identifying avenues to promote further improvements in the development and adoption of new regulations among APEC Members. Also to ensure regulations achieve desired public policy outcomes without creating unnecessary obstacles to trade; and To update and revise key APEC technical documents/ resources on GRP which are valuable reference tools for regulators in the Asia-Pacific, and globally.	United States	(vi) others	R&D Supply; Trade; Demand	Conference was held in SOM 1, 2011 in Washington D.C.
5.	СТІ	Seminar on Dissemination of Environmental Technologies	Aims to increase, through knowledge, information and experience sharing, the	China	(i)technology	Supply; Trade;	Seminar held on 11 May at Big Sky, Montana

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories [*]	Work Program Component [†]	Status
			understanding and awareness on issues related to the dissemination of environmental technologies; share best practices in promoting the application and dissemination of environmental technologies through various vehicles including trade and investment; and advance EGS Work Programme and explore possible next steps APEC can take in this area			Demand	
6.	СТІ	Trade Policy Dialogue on Environmental Goods Non- Tariff Measures,	To have an informal discussion among APEC officials, private sector representatives, and other experts aimed developing a better understanding of NTMs impacting environmental goods (EGs) trade, and discussing options for how APEC might address EGs NTMs in its work.	United States		Trade	Seminar held on 12 May, Big Sky, Montana.
NEW	PROPOSALS / ON-GOIN	G PROJECTS					
7.	AD	Facilitating the Diffusion and Dissemination of Advanced Technology Demonstration Motor Vehicles throughout the Asia-Pacific Region		United States			
8.	СТІ	Draft APEC EGS Technology Dissemination Action Plan	To create an APEC framework to promote and facilitate environmental technology dissemination; and to enhance capacities of APEC economies to disseminate EGS technologies, particularly those of developing economies to attract, use and develop EGS technologies, as well as develop their EGS industries; and to	China	(i)technology	Supply; Trade; Demand	On-going. A revised proposal will be tabled for consideration at CTI3 with the view to finalising it for AMM in November.

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories*	Work Program Component [†]	Status
9.	CTI / MAG / GOS	Environmental Goods and	promote understanding, knowledge and communication on the supply and demands of EGS technologies, unlock EGS technology markets and promote regional trade and investment on EGS; In light of the principle of "common and differentiate responsibilities", Identify areas of technology transfer through a series of cooperative initiatives so as to better address the needs of developing economies. To identify the key EGS policies, market	United	(i)technology,	R&D Supply;	On-going. Case studies on
9.	CITY WAG / GOS	Services Case Studies	drivers, and challenges associated with promoting trade and investment in EGS in the selected APEC economies' markets, provide a more comprehensive picture of the economies domestic marketplaces, and suggest ideas on how to achieve greater "green growth. Final case studies will be made available on EGS Information Exchange (EGSIE).	States, New Zealand, Australia	(i)energy efficiency, (iii)climate change, (iv)clean air, (v)clean water (vi) others	Trade; Demand	Malaysia's and Mexico's EGS markets completed; The completed case studies for Chile and Viet Nam will be presented to CTI3 in San Francisco.
10.	MAG	Environmental Goods and Services Information Exchange (EGSIE)	To provide public and private stakeholders in APEC economies with a means to access and share the latest information, studies, projects and commitments on EGS	Canada, New Zealand, US	(i)technology, (ii) energy efficiency (iii) climate change, (iv) clean air, (v) clean water (vi) others	R&D Supply; Trade; Demand	On-going. Formally launched in November 2009.
11.	MAG	Updating EGSIE website information	There is a proposal to improve the EGSIE website information on current regulations related to the environmental goods and services sector.	United States	(vi) others		On-going. Will be discussed further at MAG3 in San Francisco

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories [*]	Work Program Component [†]	Status
12.	MAG	Proposed Workshop on Managing Trade in Remanufactured Goods at the Border	To share best practices regarding treatment of remanufactured products for customs, safety, and import policy purposes, and discuss issues associated with ensuring safety of these goods.	United States, Canada, Japan and Singapore	(i)technology, (ii) energy efficiency	Trade	Concept note obtained in- principle approval from BMC in May 2011. Workshop planned to be held at SOM3 in San Francisco in Sept 2011
13.	MAG	Proposal on "Facilitating Trade in Remanufactured Products"	Proposes to build on the existing APEC work on remanufactured goods and fulfill Ministers' instructions by taking steps to facilitate trade in these goods.	United States and Japan	(i)technology, (ii)energy efficiency	Supply; Trade; Demand	Discussed at MAG1 in March 2011 and MAG2 in May 2011, and will be considered again at MAG3 in San Francisco.
14.	MAG / EWG	Survey of Major Impediments and Market Driver to the Development of trade in Environmental Goods	To share information on impediments to expanded trade in environmental goods and to help markets of environmental goods more well-functioning	MAG: Australia, Japan EWG: US	(i)technology, (ii)energy efficiency, (iii)climate change, (iv)clean air, (v)clean water (vi) others	Supply; Trade; Demand	Endorsed by EWG in November 2009, and in principle endorsed by MAG in May 2009. Budget proposal to be submitted.
15.	EWG, Expert Group on Energy Efficiency and Conservation (EGEE&C)	Engagement by APEC Economies in International 'Smart Appliance' Standards for Air Conditioners and Other Appliances.	The project is aimed at information sharing to enable active involvement of APEC stakeholders with the International Electrotechnical Commission (IEC) and International Standards Organisation (ISO) technical work on development of international standards for 'smart' appliances. The project is consistent with the ongoing APEC Smart Grid Initiative, and supports the APEC Leader's Growth Strategy by working towards enhancing energy security and promoting energy-efficiency and low-carbon policies through smart grid and demand management technologies	Australia	Energy Efficiency, Energy Security, Iow-carbon Climate Change	R&D Harmonizing standards on energy	The project was approved by BMC2 and implementation is under way. (EWG 01/2011T)

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories [*]	Work Program Component [†]	Status
16.	EWG	APEC Peer Review on Energy Efficiency (PREE) Phase 3	To share information on energy efficiency performance, as well as policies and measures for energy efficiency improvement; To explore how energy efficiency goals could be effectively formulated in each APEC economy under review, taking into account the diversity of the strategies and circumstances of individual economies; To monitor progress toward attaining energy efficiency goals and the implementation of action plans.	Japan, Viet Nam, Thailand	Energy Efficiency, Climate Change	R&D, Information sharing	The project was approved by BMC2 and implementation is under way. (EWG 02/2011)
17.	EWG	APEC Workshop on Energy and Green Transport Benefits of Electric Vehicles	To provide considerable supports to power and transport planners in developed and developing economies to put green transport strategies and policies in greater use of electric vehicle in place. To build understanding of how the green benefits brought from the use of electric vehicle, and to encourage wider application as well as trade and investment in electric vehicles, energy storage facilities and the related charging infrastructures to facilitate the transfer of fossil fuelled to electric driven vehicles.	China and Hong Kong, China	Energy Efficiency, Climate Change, Green Transport	Promote trade and investment in green vehicles	The project was approved by BMC2 and implementation is under way. (EWG 05/2011A)
18.	EWG	APEC Peer Review on Low- Carbon Energy Policies (PRLCE) Phase 1	Share experiences and knowledge on best practices for efficient and effective policies to promote renewable power supplies in developing APEC economies, including how to adapt policies and measures which have been successful elsewhere to the unique conditions of	Japan, Thailand	Renewable Energy, Energy Efficiency.	R&D	The project was approved by BMC2 and implementation is under way. (EWG 04/2011A)

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories*	Work Program Component [†]	Status
			each economy; Encourage developing APEC economies to set individual goals on power supply from renewable resources and to formulate action plans to achieve the goals.				
19.	EWG	APEC Low Carbon Town (LCMT) Forum	To provide opportunities for knowledge sharing and capacity building for all APEC economies on LCMT development in terms of policy making, city planning, energy layout, finance and economic incentives for low carbon development, for example, carbon trade, etc.	China, Japan, Malaysia	Low Carbon, Energy Efficiency	R&D, Information sharing	The project was approved by BMC2 and implementation is under way. (EWG 06/2011A)
20.	EWG, Expert Group on New and Renewable Energy Technologies EGNRET	Addressing Challenges of AMI Deployment in APEC	Investigate and confer the development strategies and current status of AMI in all APEC economies. Identify effective AMI polices and best practices. Offer guidelines to economies and industry for AMI deployment. Provide recommendations for power network upgrading and Smart Grid integration. Increase the awareness and effectiveness of AMI.	Chinese Taipei	Smart grid, energy efficiency	R&D, best practices	The project was approved by BMC2 and implementation is under way. (EWG 07/2011A)
21.	EWG	Renewable Energy Sources in Electricity Markets: Goals and Conditions for Providing Sustainable Development	To estimate the efficiency of measures taken in APEC economies to stimulate the development of use of renewable energy sources and as a result to elaborate recommendations on the unification of best practices applied; To study and change legislation, normative rules, economic models, technical	Russia	Promoting Renewable Energy, Electricity market	R&D, Trade	The project was approved by BMC2 (EWG 09/2011A)

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories [*]	Work Program Component [†]	Status
			regulations and technologies for appropriate renewables functioning in electricity market relying on best practices; To discuss and distribute the results, contributing to the sustainable development among APEC economies provided access to distant courses on regulatory framework, economics, technologies and best practices for representatives of all APEC economies				
22.	EWG, EGEE&C	APEC Energy Standards Information System (ESIS)	Aims to provide up-to-date information about appliance and equipment energy standards and regulations and to provide "Communities of Practice" for experts and officials to discuss efforts to harmonize and rationalize the testing, labelling, and minimum energy standards for specific appliances and equipment; and others.	New Zealand	(i)technology (ii)energy efficiency (iii)climate change	Supply; Trade; Demand	ESIS Website Ongoing at: http://www.apec-esis.org
23.	EWG, EGEE&C	Using Smart Grids to Enhance the Use of Energy Efficiency and Renewable Energy Technologies.	To understand how smart grid technologies and practices have been used to enable new products and services, optimize the use of power grids, allow greater use of renewable energy options, and encourage greater demand-side efficiency response in APEC economies.	US	(i)technology (ii)energy efficiency (iii)climate change	Demand	The project would fund a report on the status and potential, within APEC economies, of smart grid technologies to enhance the use of renewable energy and energy efficient buildings, appliances and equipment. Self-funded project. A detailed survey has been developed and distributed to APEC member economies. The survey responses are

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							currently being correlated for utilization in the project report.
24.	EWG, EGEE&C	Cool Roofs in APEC Economies: Review of Experience, Best Practices and Potential Benefits	To create capacity building to implement cool roof technologies and policies in developing APEC member economies by reviewing experience in the region with cool rooftops in residential and commercial buildings, identifying and disseminating information on best practices, and summarizing the associated benefits in terms of reduced energy use and emissions.	United States	Energy efficiency Improve of technology to GHG savings Air Quality	R&D	Delay in bidding process; project extension has been approved. (EWG11/2009A).
25.	EWG	APEC Peer Review on Energy Efficiency (PREE)	To share information on energy efficiency performances as well as on policies and measures for improving energy efficiency; Explore how energy efficiency goals on an overall and /or sectoral basis and action plans could be effectively formulated in each APEC economy under review and monitor progress towards attaining energy efficiency goals; and provide recommendations for voluntary implementation on how implementation of action plans could be improved with a view to achieving energy efficiency goals.	Japan	Energy Efficiency Monitor progress of economies on energy efficiency	R&D	Four economies have had the PEER Review (New Zealand, Chile, Thailand and Viet Nam). The project was encouraged by APEC Leaders in their meeting in Singapore in 2009. It is a project cosponsored by all APEC economies (EWG11/2009). In EWG39 meeting in Tokyo three new economies have engaged to have the review (Chinese Taipei, Malaysia and Peru). The PEER Review was also commended by APEC Energy Ministers in their

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							9 th Meeting in Fukui, Japan on 19 June 2010. Ongoing.
26.	Energy Working Group / Expert Group on Clean Fossil Energy	Increasing the Knowledge and Awareness of Carbon Capture and Storage: CCS Capacity Building in the APEC Region (Phase V)	This proposal aims to increase the capacity of developing APEC economies to assess the potential of Carbon Capture and Storage technologies within their own economies and to evaluate options for the uptake and implementation of this technology.	Canada	Capacity building in CO2 emission reduction	Climate Change adaption and mitigation	Extension approved till 30 June 2012. (EWG 05/2010A)
27.	Energy Working Group / Expert Group on Energy Efficiency and Conservation	Survey of Market Compliance Mechanisms for Energy Efficiency Programs	The project aims to survey strategies used by APEC economies to monitor market compliance with energy-efficiency standards and labeling programs for consumer appliances and office equipment. It will compile experience on enforcement issues, market survey techniques, sampling efforts, and compliance indicators used by regulatory and enforcement agencies in APEC economies, in order to provide reference of practical approaches to ensure compliance with energy efficiency standards.	United States	Energy Efficiency, Standards	Market compliance Labelling	Contract has been awarded. Project in progress. (EWG 07/2010A)
28.	Energy Working Group (APEC Expert Group on Energy Efficiency and Conservation	SOLLIA – Street and Outdoor LED Lighting Initiative - Asia	Share best practices for the installation of highly-efficient light-emitting diodes (LEDs) for street lighting, in order to facilitate their wider adoption in APEC economies and benefit from associated energy savings.	United States	Energy Efficiency, Climate Change mitigation	Cost Effective installation of Street lighting	Contract has been awarded. Project in progress. (EWG 08/2010A)
29.	Energy Working Group	APEC Low-carbon Model Town (LCMT) Project – Phase 1	The Project, seeks to promote low-carbon technologies in city planning in order to	Japan, Canada,	Climate Change mitigation,	R& D, low- carbon urban	Contract has been awarded. Project in

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories [*]	Work Program Component [†]	Status
			manage rapidly growing energy consumption and greenhouse gas emissions in urban areas of the APEC region.	China, Korea, Chinese Taipei, USA		design.	progress. (EWG 09/2010A)
30.	EWG EGEE&C	Development and Harmonisation of Standards Indoor Light Emitting Diodes (LEDs)	This project's primary objective is to promote the involvement of APEC economies in the development of international standards for light emitting diodes (LEDs) in order to encourage harmonisation of LED standards and reduce barriers to trade created by the emergence of a varying number of standards, therefore APEC is the most appropriate institution to fund it.	Australia	High Efficiency Lightning Technology Standardization	Reduce Trade barriers	Project ongoing. (EWG 10/2010T)
31.	Energy Working Group / Expert Group on Clean Fossil Energy	Permitting issues related to carbon capture and storage for coal-based power plant projects in developing APEC economies	To review the work in progress in the region and around the world on relevant legal, regulatory, and permitting issues and frameworks, To identify issues likely to arise if the permitting frameworks being considered were to be applied to future CCS projects in developing APEC economies, and To make recommendations for capacity building needed in developing APEC economies.	United States	Climate Change mitigation, carbon capture and storage	cost-effective capacity building	Contract has been awarded. Project in progress. (EWG 04/2010)
32.	Expert Group on Energy Data and Analysis/ Energy Working Group.	Operation of APEC Energy Database and Analysis	To improve the quality of energy policy decision making in APEC member economies and to improve the efficiency of the regional energy market and to strengthen regional energy security through improving the quality and availability of energy data.	Japan	Energy Efficiency	Energy Data collection	Project ongoing. (EWG 06/2010)
33.	Energy Working	Phasing Out Fossil Fuel	The ultimate objective of this project is for	United	Rationalize and	Reducing	Contract has been

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories [*]	Work Program Component [†]	Status
	Group / Expert Group on Clean Fossil Energy	Subsidies to Reduce Waste and Limit CO ₂ Emissions while Protecting the Poor	individual APEC economies to rationalize and phase out fossil fuel subsidies, thereby helping to reduce wasteful fossil fuel consumption, to limit the region's oil import dependency, and to mitigate climate change by reducing carbon dioxide emissions.	States	phasing out fossil fuel subsidies. Climate change mitigation	subsidies on fossil fuels	awarded. Project in progress. (EWG 11/2010)
34.	Energy Working Group (New)	Efficiency Design for Sustainability (CEEDS) Phase 3	CEEDS Phase 3 is designed to assist participating developing economy delegates from both energy and transportation ministries through the process of developing next steps to improve energy efficiency in the passenger ground transportation sector. The process will be built around two workshops to provide capacity-building and information sharing. Between the first and second workshops, delegates will be expected to discuss their proposed next steps with colleagues at home, and seek their advice on improving the plan, and support for its implementation.	Japan	Energy efficiency, climate change	Transport and implementing high performance policies and measures in efficiency	Two workshops are designed to fulfill the results. 1 st on 14-16 September 2011 in San Francisco, USA, scheduled back-to-back with the APEC Energy and Transportation Officials High Level Meeting; 2 nd first quarter of 2012 in Singapore. (EWG 03/2011A)
35.	Energy Working Group NEW	Workshop on Low Emission Development Strategies (LEDS) for APEC Economies with a Focus on Energy and Transport	The workshop will be held on the margins of the joint Energy and Transport Ministerial Conference in September 2011, and will highlight linkages between APEC green growth and energy goals and Low Emission Development Strategies (LEDS). LEDS is a strategic framework that helps economies articulate concrete actions, policies, programs and implementation plans to meet development objectives, improve	United States	Green Growth, energy efficiency, low emission development	Info sharing	The Project Overseer is in the process of identifying the speakers and participants. The workshop will be held on 11-12 of September 2011. (EWG 13/2011A).

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			environmental management, and boost economic growth. It would thus include officials from APEC member economies' energy and transport ministries, as well as interested private firms and experts, who plan to participate in the Conference.				
36.	Energy Working Group/ Low-Carbon Model Town Task Force NEW	EWG 08 2011A - Increasing Foreign Direct Investment through human capital development in the area of greer township/ eco city that would lead to sustainable development within APEC Economies.	The programmed work will help in develop a sustainable framework for green township/eco city and Assessment tool in the APEC region that can be adapted and adopted by economies. This will take the form of a comprehensive document that will serve as a guide for the development of green township/eco city. It will also enable economies to save cost on producing similar documents and undertaking such projects. The document will focus on town and country planning and the use of green technologies to develop green townships and cities. The document will be the first of its kind in the region. This will also help to achieve some degree of coherence in the development of GREEN township/eco city by member economies.	Malaysia	Green Growth, Sustainable development, green townships	Info sharing; building tools to improve eco-cities	The Project Overseer is in the first steps of carrying out the project (EWG08/2011A).
37.	Energy Working Group NEW	APEC Peer Review on Energy Efficiency (PREE) Phase 3	The objective of Follow-Up PREE in PREE Phase 3 is to fill the gap between the implementation of energy efficiency action plans and the monitoring and evaluation of those plans. Establishing analytical methods specifically will help to:	Japan, Viet Nam, Thailand	Energy Efficiency Monitor progress of economies on energy efficiency	R&D, Sharing information	Under the PREE Phases 1 and 2, seven peer reviews were conducted in New Zealand, Chile, Viet Nam, Thailand, Chinese Taipei, Peru and Malaysia. In PREE Phase 3, the follow-up activity focuses

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			a) ensure the stipulated goals are measurable; b) define clearly the data needs for monitoring and evaluation; c) establish indicators to measure the real achievements against those planned; and d) provide timely feedbacks for corrections if there are deficiencies in performance.				on capacity building in monitoring and evaluation of energy efficiency programs. The project is the early stages of implementation. (EWG 02/2011).
38.	Energy Working Group/ Expert Group on Energy Data and Analysis (EGEDA NEW	Operation of APEC Energy Data and Analysis	1. The primary objective of this project is to improve the quality of energy policy decision making in APEC member economies and to improve the efficiency of the regional energy market and to strengthen regional energy security through improving the quality and availability of basic energy data. 2. To collect the energy data and relevant information from member economies, to operate the APEC Energy Database connected to on-line network and to produce and publish APEC Energy Statistics.	Japan	Energy efficiency, monitor progress.	energy demand and supply data and analysis	The project is the early stages of implementation. (EWG 10 2011)
39.	Energy Working Group/Expert Group on New and Renewable Energy Technologies. NEW	APEC 21 st Century Renewable Energy Development Initiative (Collaborative IX): Stock-take of electric vehicle interface with electricity and smart grids across APEC economies and the potential for harmonisation	To enhance understanding in APEC economies of Electric Vehicles (EV) connectivity to electricity grids and identify opportunities to increase the harmonisation of standards and requirements to promote the deployment and integration of EVs, both vehicles and supporting technologies, by providing: 1 An assessment of current	New Zealand	Energy efficiency, harmonisation of standards, smart grids.	Info-sharing, R&D, Trade improvement	The project is the early stages of implementation. (EWG 11 2011)

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories [*]	Work Program Component [†]	Status
40.	Energy Working Group / Expert Group on Clean Fossil Energy. NEW	APEC Unconventional Gas Census: Evaluating the Potential for Unconventional Gas Resources to Increase Gas Production and Contribute to Reduced CO ₂ Emissions	and planned grid and vehicle interconnection standards and regulations for EV deployment in different APEC economies; 2 An assessment of EVs in existing and proposed smart grid deployment projects and policies; and 3 Recommendations on opportunities where improved harmonisation in EV – grid connectivity standards and requirements can reduce barriers for trade and promote deployment; 4 To provide a uniform source of information to car makers and other EV technology investors to minimise public and private costs. To share experiences and exchange information on surveys of unconventional gas resources completed, underway or planned for different APEC economies, and on relevant activities by other international fora. 2. To develop a report to the Energy Working Group containing: • Potential amounts of each type of unconventional gas that could be practically and economically produced in each economy throughout the APEC region, including a timeframe for their availability; • Suggested framework, scope and content of an APEC unconventional natural gas	United States	Energy Efficiency, Unconventional energies	R&D, Info- sharing	The project is the early stages of implementation. (EWG 12 2011)

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories [*]	Work Program Component [†]	Status
			census [‡] , and relationship to other relevant international and national activities. • Recommendations for setting up an APEC unconventional natural gas census, including scope, content, timing, and management responsibility.				
41.	EWG - Expert Group on Energy Efficiency and Conservation (EGEE&C) NEW	Engagement by APEC Economies in International 'Smart Appliance' Standards for Air Conditioners and Other Appliances.	Aimed at information sharing to enable active involvement of APEC stakeholders with the International Electrotechnical Commission (IEC) and International Standards Organisation (ISO) technical work on development of international standards for 'smart' appliances.	Australia	energy security energy- efficiency and low-carbon policies.	Info-sharing, standards development process	The project is the early stages of implementation. (EWG 01 2011T)
42.	eWG - Expert Group on Energy Efficiency and Conservation (EGEE&C) NEW	Energy Performance Evaluation Methodology Development and Promotion in APEC Economies	Seeks to summarize and analyze energy performance evaluation methodologies, guidance and practices in APEC economies and other economies, develop a typical and comprehensive energy performance evaluation methodology for industrial enterprises, provide best practices case studies mainly based on China's experiences, propose a harmonized approach and implementation recommendations, and hold a workshop to share and promote the project outputs.	New Zealand, Chinese Taipei	Energy efficiency, energy performance evaluation.	Info-sharing, best practices, harmonisaton	The project is the early stages of implementation (EWG 14 2011T)
43.	FMP (Finance Ministers Process)	Green Finance for Green Growth	To analyze how the financial sector can facilitate green growth, considering the role of banks, capital markets, other	Korea Japan China	(i)technology, (ii)energy efficiency,	R&D Supply Trade	Further workshops are planned for 2011. (FMP03/2020).

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories*	Work Program Component [†]	Status
			market-based instruments, and subsidies and tax policies.		(iii)climate change, (iv)clean air, (v)clean water (vi) others	Demand	
44.	HRD (new)	Human Capital Policies For Green Growth and Employment	To examine human capital policies in APEC member economies, and adjust human resource development policies for sustainable, "green," energy efficient growth and employment through a survey of member economies and a symposium on green growth skills.	US	(ii)energy efficiency, (vi) others	R&D, Supply	This HRD project is approved by BMC in June 2011 and has been implemented.
45.	ISTWG (Industrial Science and Technology Working Group)	Cooperative Study on Efficient Renewable Resources Integration and Distribution Technologies for Smart Grid Construction	To analyze technologies on integration of renewable energy sources into smarter grid and give advice to stakeholders when the technologies are applied in practical projects; Experiences of applying the technologies on renewable energies integration in the grid network will be shared among APEC economies. APEC developing economies will take the opportunity to enhance their capacity in the area. To facilitate the reduction of energy wastage by encouraging projects with recommended technologies in this project to help achieve a low carbon society and safeguard the quality of life through sustainable growth.	China	Renewable Energy, Smart grid, to reduce energy waste.	R&D, Info sharing	Project in progress. (IST 01/2011A)
46.	Industrial Science and Technology Working Group (ISTWG)	APEC Research Center for Typhoon Flood Prediction (Self-funded project)	The project aims to (1) A regional Typhoon researches center to enhance the prediction abilities (2) Training program and workshop for the Typhoon (3)	Chinese Taipei, the Philippines	(i)technology, (iii) climate change	R&D Supply	Project in progress.

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories [*]	Work Program Component [†]	Status
			Developing new numerical method and program to fit the uniqueness of the geographical features (4) Build a data exchanging system of Typhoon information.				
47.	ISTWG	APEC International Biogas Resources Development and Utilization Science and Technology Cooperation Forum	Forum will be hold for communication and discussion on biogas technology and products, to provide stat-of-the-art biogas information and its tendency, to push forward biogas technology and products research, popularization and application, to enhance the APEC member economies cooperation in depth and breadth, to expand biogas-related technique and equipment application	China	Energy Efficiency. Energy collecting data	Renewable energy, Biogas	The workshop was held in Kunming on 15-17 August 2011. (IST 04/2010)
48.	ISTWG	APEC Symposium on Low- Carbon Technology & Industrial Cooperation	The project will actually contribute to the development of "low-carbon economy" in China and APEC region as it lays emphasis on promoting industrial technical cooperation among APEC members under the global situation of developing low-carbon economy, mitigating climate change and maintaining a green sustainable economic and social development.	China	Energy Efficiency, Climate Change mitigation	Low Carbon Technology, industrial Cooperation	Project is ongoing. (IST 05/2010A)
49.	ISTWG	Develop the eco- environmental impact assessment estimating tool (Self-funded project)	To develop the prototype technology of design for electronic waste recycling to reduce carbon foot print and to reach the optimum use of resources.	Chinese Taipei	(i)technology; environment	R&D	On going. This project is the joint project with International Electronic Manufacturing Initiative (INEMI). The benefit of this project will facilitate the product eco-design

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories [*]	Work Program Component [†]	Status
							for a better environment and resource conservation.
50.	ISTWG NEW	Harnessing and Using Climate Information for Decision- making in Agriculture, Water Resource Management and Energy Efficiency	To impart lessons and best practices in climate prediction and applications through capacity building workshops, tutorial sessions, and transfer of knowledge and technologies; To disseminate and transfer of the latest research findings and technologies in climate prediction science and experiences on how climate information are used in agriculture, water resources and energy sectors; and To strengthen and enlarge the network of women and men climate scientists, academics, decision-makers, private sector and other stakeholders in the APEC region that would facilitate uptake and use of climate information in application areas and support North-South and South-South cooperation in prediction and application.	Republic of Korea	Climate Change, Climate Information	Info-sharing, R&D	The project is the early stages of implementation (IST 02 2011A)
51.	ISTWG NEW	Climate Change Adaptation in the Asia Pacific	1) Build capacity in science observation and information resources on climate information products and global observation systems. 2) Augment the region's capability to utilize the science that underpins decision making and ensure that organizations that maintain such products will be able to share their products with government officials.	United States, Japan	Climate Change adaptation.	Info-sharing, R&D, Capacity building, harmonisatio n	The programmed workshop will be held in the margins of SOM 3 in San Francisco (IST 03 2011A)

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories*	Work Program Component [†]	Status
			3) Build capacity in climate change adaptation by addressing specific topics of interest to developing member economies. Possible topics include water resource management in a changing climate, agricultural resilience, fisheries and marine resource management, marine and coastal adaptation, coastal communities and/or resources and finance for climate change adaptation.				
52.	ISTWG NEW	Apec Co-Incubation Network	1) To integrate the technology innovation and economy development, to push the technology and market collaboration among companies and incubators in APEC member economies, by generating an internal network with policies and resources equally shared among incubators and companies; 2) To provide soft landing services, improve the business environment to ease the way of doing business for small technology companies, by providing networked incubation services; 3) To promote human resources development by encouraging entrepreneurship and creating new jobs. To sum up, the ultimate outcome is to form a system that will further promote the innovation, regional economic integration and entrepreneurship, based on a view of technology-based small companies	China	Technology innovation, incubators, human resources, small companies	Info-sharing, market collaboration, building networks, business environment	The Fifth APEC Incubation Forum on Building a Co-incubation Network will be held in Xi'an, China, on September 6-8, 2011. Following the previous four APEC Incubation Forums in 2000, 2002, 2005 and 2008. (IST 04 2011)

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories [*]	Work Program Component [†]	Status
53.	(Chemical Dialogue)	APEC Strategic Framework on Chemicals	To facilitate alignment of the Leaders' goals for sustainable economic growth and regulation; to promote regulatory capacity and convergence for enhanced environmental and health protection while avoiding potential barriers to trade; and to enhance chemical management and product stewardship over the life cycle and in cooperation with other initiatives and institutions where appropriate.	US	(i)technology, (ii) energy efficiency (iii) climate change, (iv) clean air, (v) clean water (vi) others	R&D Supply; Trade; Demand	At their November 2010 meeting in Yokohama, Japan, Ministers endorsed the multi-year work strategic framework adopted by the Chemical Dialogue as a contribution to moving forward APEC's trade and investment and liberalization agenda and noted the chemical sector's contributions to growth.
54.	SCSC	Trade Facilitation Task Force (TFTF)	To exchange views and information on the nexus between the trade and technical aspects of product-related environmental standards, technical regulations and conformity assessment procedures.	Korea, US	(i)technology, (ii)energy efficiency, (iii)climate change, (iv)clean air, (v)clean water	Supply; Trade; Demand	On-going. Established in 2006. The most recent TFTF held on February 23, 2009 to exchange views and information on the connection between trade and product-related environmental standards, technical regulations and conformity assessment procedures. A TFTF Meeting-Special Session on Carbon Foot Printing was held on 17 September in Sendai.
55.	SCSC	Solar (PV) Standards and Conformance Measures Survey and Workshop	Increase transparency of various economies' standards and conformance regimes for solar photovoltaic (PV) technologies to enable standards experts to gauge the level of harmonization of PV	United States	(ii)energy efficiency (iii)climate change	Supply; Trade; Demand	Workshop to be held in SOM 3, 2011.

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories [*]	Work Program Component [†]	Status
56.	SCSC	Conference on Implementation of Energy Management Standardization	standards and conformance methodologies within APEC and determine areas for increased cooperation and harmonization Expand information sharing on the development and use of renewable energy sources to mitigate the environmental impact of energy use –in order to reduce discrepancies among APEC economies regarding the adoption and use of solar products; and Avoid creating unnecessary obstacles to trade in PV products stemming from PV standards and conformity assessment procedures. Objectives of this proposal are: Highlight the value that energy management standards can have to businesses, consumers, and the environment. The proposed ISO specification will provide a practical approach to improving energy efficiencies, reducing costs and improvements in the environmental footprint of implementing organizations. Explain the role that energy management standards can play in assisting businesses in emerging and developing markets to become more competitive internationally.	United States (ii)energy efficiency	United States (ii)energy efficiency	United States (ii)energy efficiency	Conference to be held in SOM 3, 2011.
57.	scsc	Sustainability in Building Construction (Commercial Buildings) — Efficiency and Conservation	Objectives are to identify member Economies' current practices, policies and regulations or those being developed or contemplated, with a view to use this early information exchange as a way to potentially reduce or minimize technical barriers to trade among APEC Members	United States	(ii)energy efficiency	others	On-going. Workshop held in Washington D.C. on 3-4 March 2011. Another workshop will be held in Singapore on 11-13 September 2011. (CTI-SCSC 33/2010T)

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories*	Work Program Component [†]	Status
			and to better understand Member priorities for understanding the various aspects of green building standardization.				
58.	SMEWG (new)	APEC Global OVOP Support Measure Best Practices	Phase 1: Study the various types of "One Village, One Product" support programs and highlight best practices. Phase 2: One-day seminar to share OVOP best practices and discuss ways to enhance international cooperation.	Japan	(i) technology; (ii) energy efficiency; (iii) climate change; (vi) others.		Phase 1: By September 2011 Phase 2: Seminar to be held in November on the margins of the 33 rd Meeting of the SMEWG
59.	SMEWG (new)	International Workshop and Training 'The Role of Business Incubators in Developing Green Technology-based SMEs"	To develop recommendations in order to accelerate the development of green technology-based SMEs in the APEC region though strategy development and capacity building of business incubators.	Indonesia	(i) technology; (vi) others.		Workshop and Training will be held on 27-29 September 2011, in Yogyakarta, Indonesia
60.	SMEWG (new)	Green Initiative Study and Workshop	To define areas and elements of green innovation policies and to develop a Green Action Plan template. The Green Initiative is the 2 nd cycle of the Daegu Initiative.	Korea	(i) technology; (ii) energy efficiency; (iii) climate change; (iv) clean air; (v) clean water and (vi) others.		Workshop to be held in the last trimester of 2011.
61.	SOM	The First APEC Meeting of Ministers Responsible for Forestry	To assess existing efforts and explore further opportunities to enhance work on achieving the aspirational goal of increasing forest cover in the region by at least 20 million hectares of all types of forests by 2020, which was adopted by Leaders' Declaration in 2007, and also, to scale-up commitments to promote sustainable forest management and rehabilitation and address forest-related issues to contribute to the green growth agenda of APEC.	China	(iii) climate change	R&D, Supply	The meeting is going to be held on from September 5-8, 2011 in Beijing, China.

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories*	Work Program Component [†]	Status
62.	SOM	Proposal on "Establishing an APEC Strategy on Illegal Logging and Associated Trade"	To address the issue of "illegal logging and associated trade is a significant problem facing the Asia-Pacific region with adverse economic, environmental, and social impacts, APEC MRT instructed officials to establish an experts group to promote trade in legally harvested forest products, combat illegal logging and associated trade, and build capacity as well as to identify by November 2011 measures for economies to consider taking to address this problem.	United States, Indonesia and Chile	(iii) Climate change	Supply; Trade; Demand	The co-sponsors have circulated a draft terms of reference for the proposed APEC Experts Group on Forest Products Trade for SOMs' comment by 2 September in order for a revised draft to be circulated in advance of SOM3.
63.	TELWG	Study Workshop on Best Practice Transfer of Green ICT for Sustainable Growth	To raise awareness of the necessity of and to disseminate practical knowledge and best practices on the implementation of Green ICT across APEC economies; to develop a mechanism for building a greener regional economy and promote APEC economic integration and sustainable growth by Green ICT.	Thailand	(i)Technology, (ii) Energy efficiency (iii) Climate change	R&D Supply	Full project proposal endorsed in December 2010. (TEL02/2010A) Online survey to be completed by August 2011 and one-day workshop to be held on 22 September 2011.
64.	TPTWG (joint with EWG)	Transport, Energy and Environmental Benefits of Intermodal Freight Strategies	To help APEC economies to shift freight transport from energy-intensive to energy-economising transport modes, including use of alternative fuels, with particular findings on capacity building in intermodal transport for developing economies which are planning major infrastructure expansion. Benefits of intermodal freight transport would be evaluated in terms of reduced oil imports, reduced greenhouse gas emissions, and reduced transit times for freight shipments.	US	Technology Energy efficiency Reduced emissions	R&D Supply Trade Demand	On-going. Contract signing stage. (TPT 01/2010A)

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories [*]	Work Program Component [†]	Status
65.	TPTWG	Energy, Transport and Environmental Benefits of Transit Oriented Development	To identify baselines for the expansion of transit-oriented development in terms of reduced oil imports reduced greenhouse gas emissions and reduced travel times in the APEC member economies.	US	Technology Energy efficiency Reduced emissions	R&D Supply Trade Demand	On-going. RFP stage. (TPT 04/2010)

APEC EGS Projects Mapping

Record of Completed Projects up until 11 May 2011.

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories [§]	Work Program Component**	Status				
сом	COMPLETED PROJECTS:										
66.	CTI (Committee on Trade and Investment)	Study on Good Regulatory Practices for Goods and Services Necessary or Desirable for Climate Change Mitigation and Adaption	To assist Member Economies to adopt trade-facilitating regulatory measures for goods and services necessary or desirable for climate change mitigation and adaption	Singapore	(iii) climate change	Supply; Trade	PSU completed the study in October 2009 and delivered it to CTI for consideration. [Member Economies are currently discussion on the next steps regarding the approach to continue the work on GRP for climate-friendly goods and services]				
67.	СТІ	Survey on the current status of applying trade related environmental standards (TREMs)	To help members, especially developing members, to build capacity to implement trade-related environmental standards by best practices and experience sharing.	Viet Nam	(vi) others	Supply; Trade	Questionnaire circulated and seminar was held in Viet Nam in December 2009 (CTI29/2009T).				
68.	MAG	Workshop on Trade and	To facilitate the sharing of ideas,	Australia,	(i)technology,	Trade;	Held on 25-26 May 2009,				

Some broad categories of EGS, which the project could help increase the use of, include: (i) environmentally friendly technology goods and services (technology); (ii) energy efficiency goods and services (energy efficiency); (iii) environmental goods and services necessary or desirable for climate change mitigation and adaption (climate change); (iv) clean air; (v) clean water and (vi) others (eg renewable energy, waster water management, environmental monitoring, analysis and assessment equipment).

^{**} The EGS Work Programme framework endorsed by Ministers in 2008 uses the basic value-chain of EGS as a framework to holistically address all aspects of EGS. Four components set out by the framework are: R&D, Supply, Trade and Demand.

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories [§]	Work Program Component**	Status
	(Market Access Group)	Environment	information and experiences between participants to provide APEC policymakers with tools to develop effective environmental regulations and to develop policies and regulations that do not distort trade in environmental technologies, goods and services.	Indonesia	(iii)climate change	Demand	Jakarta, Indonesia (self-funded)
69.	MAG	Workshop on Environmental Goods and Services	To enhance understanding of i) role and relevance of developing economies to disseminating environmental goods; ii) role and relevance of technologies to achieving enhanced energy conservation and efficiency; and iii) ideas of establishment of a common platform to eliminate/moderate existing obstacles.	Australia, Japan, New Zealand, Singapore	(i)Technology (iii)energy efficiency, (iii) climate change	Supply; Trade; Demand	Held on 28 July 2009, Singapore (CTI/32/2009T)
70.	MAG	Works on Remanufacturing	To raise awareness about business practice of remanufacturing and to enhance understanding of APEC Economies' respective remanufacturing capabilities and regimes impacting trade in remanufactured goods.	US	(vi) others	Trade	Workshop held on 21 February 2009, Singapore. Questionnaire submitted by US at MAG3, 2009, and answers circulated by some economies at MAG1, 2010. Survey result reported at MAG2.
71.	GOS (Group on Services)	Survey on APEC Trade Liberalisation in Environmental Services	To share information of trade liberalization trends in environmental services for APEC economies. In the long run, it could also be regarded as a positive response to meeting the challenges of the climate change.	China; New Zealand; Indonesia; Australia; United States	(i)technology, (ii)energy efficiency, (iii)climate change, (iv)clean air, (v)clean water (vi) others	Trade;	Report finalized. (CTI31/2008T)
72.	GOS (New)	Workshop for Capacity Building on the Role of Cross-	To increase knowledge and understanding of how the services industry and cross-	Korea; US; Japan;	(vi) others	Trade	Workshop held on 16-17 September 2010 in

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories §	Work Program Component**	Status
		Border Services Trade in New Growth Strategies	border services trade can contribute to new growth strategies, particularly "inclusive growth" and "sustainable growth (green growth)".	Chinese Taipei			Sendai, Japan. (CTI04/2010T)
73.	GOS / Tourism Working Group (TWG)	Ecotourism Conference	To increase awareness of the importance of ecotourism development; collect member economies' success stories in developing quality ecotourism; and, clarify the factors which would contribute to the development of quality ecotourism experiences in the APEC region.	Japan; Australia; Malaysia; Indonesia; Peru; Viet Nam; Korea; Philippines; Chile	(vi) others	Supply, Demand.	Conference held on 16 September 2010 in Sendai, Japan. (CTI19/2010T)
74.	SCSC (Sub-Committee on Standards and Conformance)/ EWG, EGEE&C (EWG/Expert Group on Energy Efficiency and Conservation)	Conference on Green Harmonization	The purpose of this conference is to share the importance of prevalence and harmonization on energy-efficiency standards leading to achieving the OAA of "Align their domestic standards with international standards" and "promote good regulatory practice for the preparation, adoption and application of technical regulations in the APEC region". In order to achieve a more effective involvement of the business community in SCSC's activities, the conference consists of two parts, a communication to government sectors and business sectors.	Japan; Peru; Singapore; China; US; Viet Nam; Korea; NZ	(ii) energy efficiency (iii) climate change (iv) others	Supply ;trade; demand	Held in Sendai, in 18 September 2010. (CTI44/2009T).
75.	EWG (Energy Working Group)	APEC Cooperative Energy Efficiency Design for Sustainability (CEEDS) Phase 1	To promote "high-performance" energy efficiency policy measures in developing economies in the APEC region. The focus will be on how to apply such measures to the unique conditions of each economy.	Japan	(ii)energy efficiency (iii)climate change	Supply; Trade; Demand	The schedule of the Phase 1 CEEDS process was designed to allow the final report to be submitted to the APEC

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories [§]	Work Program Component**	Status
							Leaders meeting in 2010. As CEEDS is a multi-year project, CEEDS will be expanded to cover different sets of measures in different sectors in the coming several years. Two workshops were held one in October/2009 in Chinese Taipei and one in March 2010 in Japan, with delegates from Chile, China, Malaysia, the Philippines, Thailand and Viet Nam participated. (EWG14/2009A). Project completed its Phase 1.
76.	EWG, EGEE&C (EWG/Expert Group on Energy Efficiency and Conservation)	Energy and Water Efficiency in Water Supply: Practical Training on Proven Approaches	To inform water utilities and municipalities in APEC economies of the benefits of launching efficiency programs in their water supply and/or wastewater treatment facilities, and to build capacity in developing APEC economies, through training and the provision of guidance materials and tools, to carry out energy and water efficiency programs.	United States	Energy Efficiency Reduced energy in water supply and wastewater treatment	R&D Supply Demand	A Workshop/training course was held in Viet Nam in 9-10 March 2010. The results have been reported. (EWG12/2009A). Project completed.
77.	EWG (Energy Working Group) (New)	APEC Cooperative Energy Efficiency Design for Sustainability (CEEDS) Phase 2	Specifically, the project will assist developing economies who wish to design and implement measures for achieving energy efficiency improvements in a specified sector. The focus will continue on how to apply such measures to the unique conditions of each economy.	Japan	(ii)energy efficiency (iii)climate change	Supply; Trade; Demand	CEEDS Phase 2 project examines "Building Codes and Labeling" programs with the same methodology as Phase 1. A set of two workshops were held, with the first

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories [§]	Work Program Component**	Status
78.	EWG	Mapping exercise of energy	To facilitate trade in EGS by reducing non	Japan;	i)technology	Supply	one hosted by Thailand (Bangkok) in September 2010 and the second by Hong Kong, China, in January 2011. As with PREE, the delegates at the workshop took the lead, with APERC researchers assisting by helping to organize, moderate, and report the outcomes. (EWG 03/2010A). Phase 3 has been approved with number EWG 03/2011A, in BMC Session 2/2011. Preliminary report
	EGEE&C	standards, labelling, and testing and measurement procedures in each APEC economy and their alignment with international standards	tariff barriers that currently exist for energy efficient products, and to reduce unnecessary compliance costs, save energy and mitigate the impact of climate change by reducing barriers to trade and investment in EGS, specifically energy efficient products.	Korea; NZ; Singapore; Chinese Taipei; US	ii)energy efficiency iii)climate change	Trade Demand	presented at the SCSC Conference on Green Harmonization on September 18 th in Sendai, Japan. Survey to be completed by November 2010. (EWG01/2010T). Project completed.
79.	EWG, Biofuel Task Force	Sustainable Biofuels Development Practices in APEC Economies	The project aims to specify conditions and practices that allow biofuels to be planted and harvested in a sustainable fashion. The goal is to identify means for ensuring that biofuels development is costeffective, does not compromise the security of food supplies or deplete	United States	Biofuels Carbon dioxide emissions reductions Climate Change	R&D	Project consultant presented a detailed methodology to the Sixth Meeting of the Biofuels Task Force in Malaysia in April 2010. This includes a detailed taxonomy of the

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories [§]	Work Program Component**	Status
			available water resources, and does not result in a net increase of carbon dioxide emissions.				types of sustainable development practices to be described and catalogued. The consultant has contacted experts in most APEC economies in order to find suitable examples. Report being drafted. (EWG19/2009). Project Completed.
80.	EWG, EGEE&C	Reducing barriers to trade through development of a common protocol for measuring the seasonal energy efficiency (SEER) of air conditioners	The program helps reach the goal of global energy saving and reduce barriers in trade to stimulate the APEC economy of air-conditioning markets. This platform is applicable to both constant-speed air conditioners and inverter-type air conditioners, with a capacity under 14 kW.	Chinese Taipei	Energy Efficiency Climate Change	Trade Harmonizing standards on energy	The workshop was organised in October 2009. Report completed. (EWG01/2009T)
81.	ISTWG (Industrial Science and Technology Working Group)	Building adaptive capability to extreme climate events through the networking among APEC Economies and relevant organizations/ projects	Enhanced capacity of Member Economies to manage climate-related disasters through training and technology transfer in climate information generation and application	Korea	(i)technology, (ii) energy efficiency (iii) climate change, (iv) others	R&D Supply; Demand	Symposium, forum for disaster risk management, and tutorial session was held at APEC Climate Center, Busan on 20-24 June 2010. (IST11/2009A)
82.	ISTWG	APEC Climate Center for Climate Information Services to Society	The aim is to provide optimized climate prediction information to 21 APEC members, including those members which have no capability to produce the high-cost climate information. APCC helps member economies to reduce negative economic impacts, protect lives and	Korea	Technology, Climate Change	R&D Information supply	Workshop was held in Singapore on 12-15 July 2009. Completion report received. (IST01/2009)

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories §	Work Program Component**	Status
83.	ISTWG	Research on the Futures of Low Carbon Society: Climate	properties, and bring economic prosperities. This project will also build on the capacities of Meteorological Services in member economies. To further facilitate the data exchange and regional cooperation for the development of early warning system of high impact climate, this project will organize the APCC Scientific Symposium in October 2009. To foresight the future society where low carbon economy and lifestyle becomes	Thailand	(i)technology (iii)climate	R&D Supply;	A Scenario Workshop was held on 2-4 November
		Change and Strategies for Economies in APEC Beyond 2050	the principal driver governing trade and development. The expected outcome includes short, middle, and long term strategies for the region in technological development in responding to the need of the future society envisioned.		change	Trade; Demand	2009 in Phuket, Thailand. It was the fourth of a five-step process that began with a scoping meeting in Hong Kong, China in August 2008, followed by a international working group meeting in Bangkok in October 2008 and a real time Delphi survey from June to August 2009.
84.	ISTWG	Utilization and protection of water resources	To conduct research and analysis of river basin water resources; to open a website for utilization and protection of water resources; and to build up an expert research group	China	(i)technology (v) water	R&D Supply	Symposium on Utilization and Protection of Water Resources was held in Suzhou, China from September 22 nd to 23 rd 2009. Further exploration will be conducted under the title of "Comparative Research on Wastewater Treatment Technologies".

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories [§]	Work Program Component**	Status
85.	ISTWG	APEC Workshop on Building Capacity on Bio-energy and Conserving the Natural Ecosystem through Academia- Industry Network	The workshop aims to build capacity of developing members to benefit primarily developing members in capitalizing on bio-energy resources; to understand the status of bio-energy research and development in APEC member economies; to identify the efficient network between academia and industry to sustain such research; and to find ways of developing biomass resources as well as preserving the natural ecosystem.	Korea	Technology, Climate change	R&D Energy	Three aspects of the wastewater treatment technologies are industrial wastewater, agricultural wastewater and sewage water. Monitoring report received. (IST01/2009A). Project Completed. The Workshop was held on Nov 12-14 in Taipei and its preparation is under way. (IST09/2009A). Project completed.
86.	IEG (Investment Experts' Group)	Core Elements Project (Phase I)	Project aims to examine core elements and the range of approaches to negotiating investment agreements amongst APEC member economies and non-APEC economies	New Zealand			Completed in 2009. A report "Core elements of IIAs: a cross-regional comparative study" was published in 2010. "Environment" was identified as one of the core elements in the surveyed international investment agreements (IIAs). (CTI 34/2008T)
87.	IEG	Capacity Building for Sharing	To improve the abilities and service of	Japan	Tbc (currently	Trade, Supply?	Seminar held in the SOM3

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories [§]	Work Program Component**	Status
		Success Factors of Improvement of Investment Environment – Phase 3	government officials and staff of investment promotion agencies to match current investment trend and enhance more investment flow within/through APEC region; To introduce successful experiences of APEC economies that have increased foreign investment through specific efforts in environmental sector in order to implement liberalization, facilitation, and promotion of investment in the APEC Region; To contribute to "Sustainable Growth" as well as other pillars of APEC 2010's Growth Strategy.		"environmental sector")		margin in Sendai, Japan. (CTI 03/2010T)
88.	GOS	Information Exchange of APEC Environmental Services	To exchange information on both liberalization and technology aspects of environmental services (ES) within APEC economies.	China, Japan, Malaysia, United States	(i)technology, (ii)energy efficiency, (iii)climate change, (iv)clean air, (v)clean water (vi) others	R&D Supply; Trade; Demand	Symposium held in Beijing, China in November 2010. (CTI25/2010T)
89.	SCSC	Sustainability in Building Construction (Commercial Buildings) — Efficiency and Conservation	Objectives are to identify member Economies' current practices, policies and regulations or those being developed or contemplated, with a view to use this early information exchange as a way to potentially reduce or minimize technical barriers to trade among APEC Members and to better understand Member priorities for understanding the various aspects of green building standardization.	United States	(ii)energy efficiency	others	Completed. Workshop held in Washington D.C. on 3-4 March 2011 (CTI-SCSC 33/2010T)

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories [§]	Work Program Component**	Status
90.	TELWG (Telecommunications and Information Working Group)	Smart ICT Application Initiative: Green ICT Seminar – ICT application in the field of environment	To share best practices of ICT application in some specific fields and to find how economies and businesses address the challenges to facilitate ICT application in APEC religion; to identify policy challenges in respect of investment, technology and regulations on Green ICT.	Japan	(i)Technology, (ii) Energy efficiency (iii) Climate change (tbc)	R&D Supply Trade, Demand (tbc)	Held on 3 August 2010 in Brunei. (2010/TEL42/DSG/009)
91.	TWG	Workshop on Identification of best practices in the Use of clean technologies as a source of energy in hostelry	To identify and disseminate best practice in the use of clean technologies as the main source of energy in hostelry businesses (e.g. hostels, small hotels, bed and breakfast, pensions). The objective is to promote the implementation of clean technologies to strengthen sustainability in the tourism sector.	Peru	(i)Technology, (ii) Energy efficiency	R&D Supply Trade, Demand (<i>tbc</i>)	Completed in 2009. (TWG02/2009A)
92.	TPTWG (Transportation Working Group) (joint with TWG)	Study of international visitor flows and greenhouse gas emissions for a template to examine the impact on APEC economies of future market based measures applying to international transport	To develop a template to be utilised by APEC economies to inform the development of future transport and tourism policies, negotiating positions in international fora, and economic development and planning activities.	Australia	Energy efficiency Reduced emissions	R&D Supply Trade Demand	Completed in 2009. Template is now available on the TPT-WG website (http://www.apec-tptwg.org.cn/) (TPT 02/2009)
93.	TPTWG (Transportation Working Group)	Sharing Best-Practice in Reducing Greenhouse Gas Emissions at ports	To improve the efficiency of cargo transportation systems and develop environmentally-friendly cargo transportation systems by referring best practices shared through the project.	Japan	Energy efficiency Reduced emissions	R&D Supply Trade	Completed in 2009.
94.	TPTWG Aviation Emissions Task Force (AETF)	Survey of Aviation Emissions Management Measures	To identify actions that could remove obstacles to implementing aviation emissions management measures. Four potential actions identified as follows:	Australia New Zealand	Technology Energy efficiency Reduced emissions	R&D Supply Trade Demand	Completed. Survey was presented at the TPTWG33 meeting in Japan in October 2010.

	APEC Forum	Description of Initiative	Objectives	Proponents	Categories [§]	Work Program Component**	Status
95.	MTF	Sustainable Development of	 Collaboration in improving air traffic management practices in the region; Measuring and reporting aviation emissions; APEC recognition of specific voluntary carbon offset schemes; Greater implementation of aircraft operational efficiencies. To identify trends and drivers for mineral 	Puesia	Climate change	R&D	Completed in 2009. APEC
	(Mining Task Force)	Sustainable Development of Mining Sector in APEC	commodities markets, which facilitate and impede the sustainable development of mining sector and to compile data and recommendations to ensure sustainable development of mining in APEC region.	Russia	Climate change Technology Other	Supply Trade Demand	Conference on Sustainable Development of Mining was held on 23- 24 July 2009 in Singapore. Draft APEC Report to UNCSD on Sustainable Development of Mining Sector in APEC was developed by MTF members and endorsed by SCE for forwarding to United Nations Commission on Sustainable Development (UNCSD) to compliment its review of sustainable development in mining. Draft Report is to be approved by SOM3 2010 and forwarded to UNCSD by the end of 2010. (MTF 01/2009)
96.	MTF	Balancing competing demands of mining, community and	To develop reference database on policies, regulations, standards, and	Korea	Climate change Technology	R&D	Completed. Workshop was held on 1-2

APEC Forum	Description of Initiative	Objectives	Proponents	Categories [§]	Work Program Component**	Status
	environment for achieve	technical guidelines related to mine		Other	Supply	September 2010 in Seoul,
	sustainable development in	rehabilitation, reclamation, and mine			Demand	Korea.
	mining sector.	closure among APEC economies; capacity				(MTF 04/2009)
		building for APEC developing member				,
		economies on the mine rehabilitation and				
		reclamation and best practices for				
		domestic policies related to mining				
		industry with deeper consideration of				
		environmental and social issues.				