

The logo for the Asian Development Bank (ADB), consisting of the letters 'ADB' in white serif font on a dark blue square background.

ADB

**ANNUAL REPORT
OF THE
COMMUNITY OF PRACTICE ON
Environment**

2010

ASIAN DEVELOPMENT BANK

ABBREVIATIONS

ADB	–	Asian Development Bank
AECEN	–	Asian Environmental Compliance and Enforcement Network
APAN	–	Asia-Pacific Adaptation Network
CAI-Asia	–	Clean Air Initiative for Asian Cities
CEA	–	Country Environmental Analysis
CEFPF	–	Clean Energy Financing Partnership Facility
CIF	–	Climate Investment Fund
CoP	–	Community of Practice
CPA	–	Country Performance Assessment
CPS	–	Country Partnership Strategies
DMC	–	developing member country
EIA	–	environmental impact assessment
ES	–	environmental sustainability/environment specialist
GEF	–	Global Environment Facility
GHG	–	greenhouse gas
IEE	–	Initial Environmental Evaluation
IUCN	–	International Union for Conservation of Nature
MCED	–	Ministerial Conference on Environment and Development
MEPR	–	Mainstreaming Environment for Poverty Reduction
OAS	–	Office of Administrative Services
PPCR	–	Pilot Program for Climate Resilience
RETA	–	regional technical assistance
RSDD	–	Regional Sustainable Development Department
RSES	–	Environment and Safeguards Division
TA	–	technical assistance
UNEP	–	United Nations Environment Programme
UNESCAP	–	United Nations Economic and Social Commission for Asia and the Pacific

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THE ENVIRONMENT COMMUNITY OF PRACTICE ANNUAL REPORT 2010

I. BACKGROUND AND INTRODUCTION

1. The Environment Community of Practice (CoP) was established to support ADB's operational emphasis on environment. Starting out as a network in 1998 and formalized in 2005, the CoP consists of an Environment Committee and the wider CoP.

2. The Environment Committee, or formal CoP, consists of 14 members who advise on emerging environment issues, sector/thematic work, knowledge products and services and human resource issues. The Committee, which represents each of the operational departments, also serves as the steering committee of the *Mainstreaming Environment for Poverty Reduction* (MEPR) regional technical assistance (RETA), one of the main vehicles through which the CoP mainstreams environment in ADB operations.

3. The larger informal community of practice currently has 110 members and consists of staff interested in environment, climate change and other related topics. Supported by the Environment and Safeguards Division, the informal CoP undertakes the following:

- contributes to mainstreaming environmental sustainability in Country Partnership Strategies (CPSs);
- provides specialist inputs to projects, including external peer review of concept papers, support of project preparation tasks, and assistance to project teams during processing;
- peer reviews of Environmental Impact Assessments (EIAs) for Category A projects and thematic studies;
- develops new focus areas of work in the environment sector;
- disseminates best practices, project information, and new knowledge to the environment community through "green bag" seminars;
- enhances linkages with external networks and partners;
- advises on external learning events and facilitates engagement of ADB in important conferences (feedback to operations and its implications);
- facilitates participation in external partnerships; and
- identifies and enlists expert resource persons to inform on important knowledge areas.

II. MAINSTREAMING ENVIRONMENT IN ADB OPERATIONS: A REVIEW OF 2010

4. Strategy 2020¹ aims to increase ADB's operational emphasis on environment to assist its Developing Member Countries (DMCs) in transitioning to environmentally

¹ ADB's long-term strategic framework 2008-2020 (Strategy 2020) reaffirms the importance of achieving poverty reduction and improvements in the quality of life for people in Asia and the Pacific through inclusive economic growth, environmentally sustainable growth, and regional integration. Results in these

sustainable growth, focusing on key sectors, such as energy, transport, and water. As one of the five core areas of ADB operations, environmental sustainability is becoming increasingly integrated across the Bank's operations and investment portfolio.

A. Environmental Considerations in Country Partnership Strategies

5. A review of the three CPS prepared in 2010 for Kiribati, Papua New Guinea (PNG), and Tajikistan indicate that environmental considerations continue to be taken into account in CPS preparation as follows:

- Tajikistan's CPS identified energy, transport, and the reform agenda as areas where ADB will work, with environment as one of the crosscutting themes. The CPS recognized that climate change impacts are potentially very significant considering that Tajikistan is the source of almost two-thirds of Central Asia's water resources. A project preparatory technical assistance on climate resilience was proposed for 2010.
- Kiribati's CPS supports the government's implementation of a strategy to upgrade and maintain existing and potential water and sanitation systems. The CPS presented pressure on natural resources from waste and pollution and growing urbanization as important issues, with a desired immediate outcome of improved public health standards in Tarawa. Further, the CPS highlighted the fragility of Kiribati and a climate change adaptation project is proposed in 2012.
- PNG's CPS continues ADB's promotion of the environment along with other sectors. Climate proofing is being proposed for infrastructure projects and supported by a technical assistance on climate resilience.

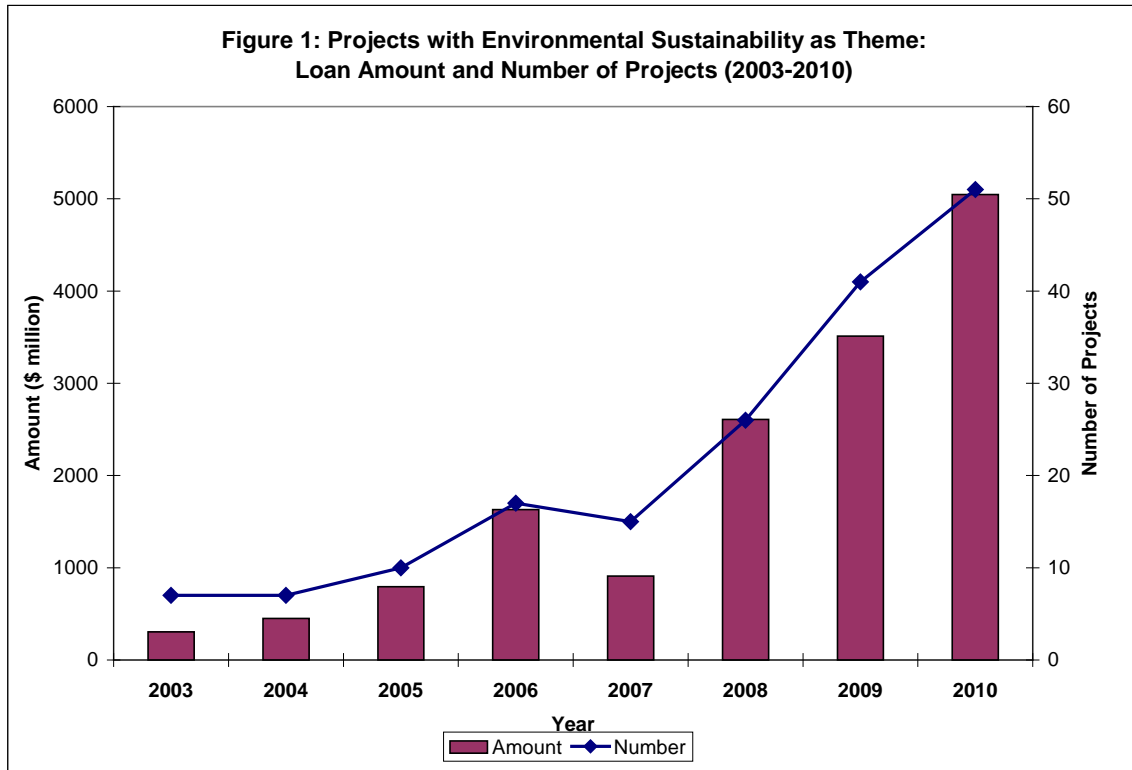
6. In addition, the Environment CoP, in an advisory role, supported a joint ADB-World Bank country environmental assessment entitled "The Philippines Environment and Natural Resources Country Assessment: A Call to Action." A draft of the assessment was completed in August and will be finalized in early 2011. It presents recommended policy, institutional and investment responses and an action plan for consideration by government focusing on natural resources, environmental health and climate change. This document will serve as a key input into the Philippines CPS, to be completed in 2011.

B. Expanded Environment Portfolio

7. Support for ADB projects with environmental sustainability as a theme has shown a marked upward trend in recent years, as shown in Figure 1. This is an indicator that DMCs' investments in the energy, water supply, sanitation and waste management, and agriculture and natural resource sectors have indeed been making quantitative and qualitative shifts towards improved environmental outcomes. With Strategy 2020 in place, supported by various programs,² ADB is effectively contributing to environmentally sustainable growth in Asia and the Pacific.

areas will be realized through five core operational areas: (i) infrastructure; (ii) environment; (iii) regional cooperation and integration; (iv) finance sector development; and (v) education.

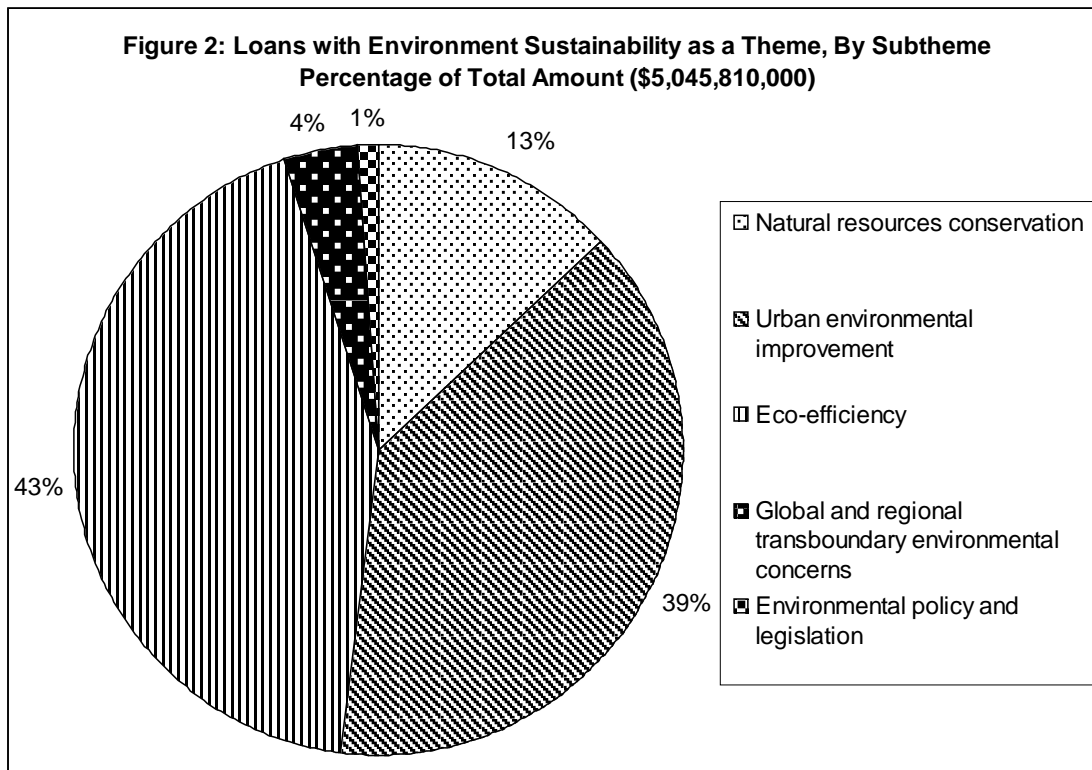
² Regional programs include the Climate Change Program, the Poverty and Environment Program, the Clean Air Initiative for Asian Cities, the Cities Development Initiative for Asia, the Sustainable Transport Initiative, and the Water Financing Program. Subregional programs include the Central Asian Countries



8. In 2010, environmental lending reached over \$5 billion, with 51 loan projects having environmental sustainability (ES) as a theme (see Annex 1 for detailed list). This represents a 44% increase in loan value compared to 2009 levels. Of the total amount of loan projects with ES as a theme, a majority of the portfolio is allotted to projects with eco-efficiency (43%) and urban environmental improvement (39%) as subthemes. Thirteen percent of the ES loan portfolio has natural resources conservation as a subtheme, while global and regional transboundary environmental concerns (4%) and environmental policy and legislation (1%) make up the remaining amount. More information is detailed in Table 1 and Figure 2 below.

**Table 1: Loans with Environmental Sustainability as Theme
(approved in 2010, by sub-theme)**

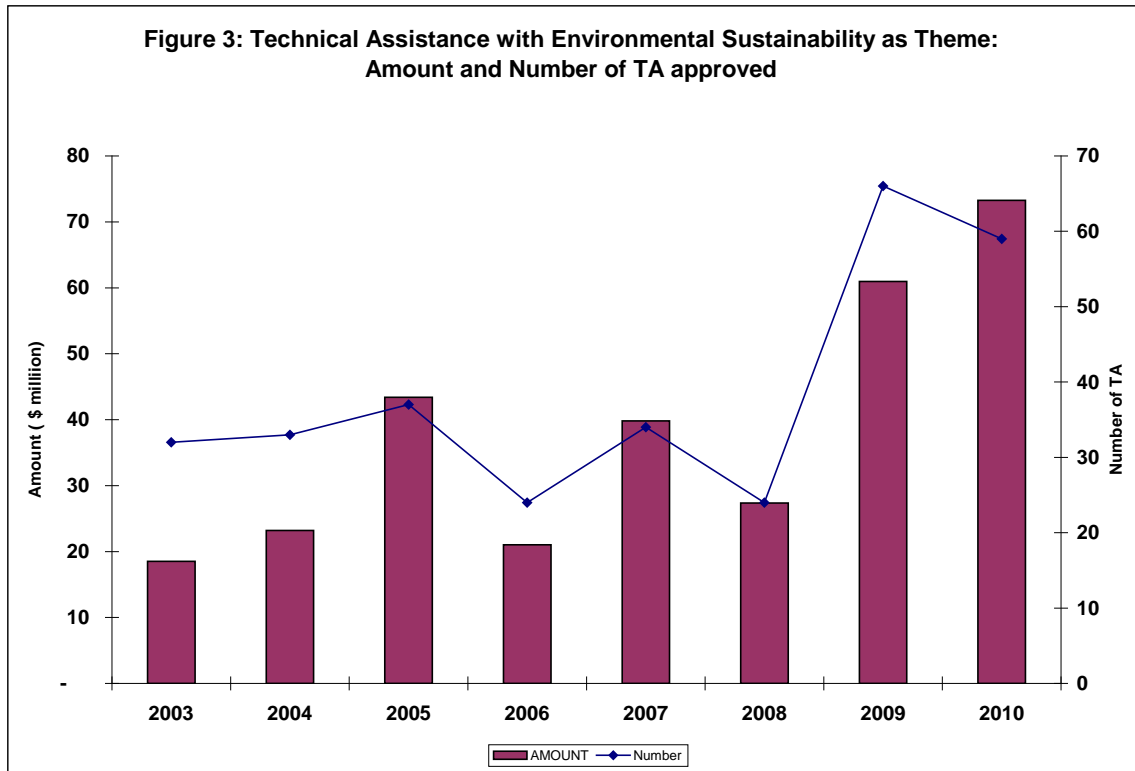
Subtheme	No. of Projects	% of Total Number	Amount (US\$ million)	% of Total Amount
Eco-efficiency	17	33	2194.7	43
Urban environmental improvement	22	43	1970.92	39
Natural resources conservation	9	18	649.32	13
Global and regional transboundary environmental concerns	2	4	179.3	4
Environmental policy and legislation	1	2	51.56	1
Total	51	100	5,045.81	100



9. These loan activities have been complemented by 59 technical assistance projects in 2010, worth over \$73 million (Annex 2). These TA projects support activities that, among other things:

- (i) integrate environmental objectives into national and sector economic development processes;

- (ii) introduce policies and regulatory systems for environmental management, including the use of economic instruments;
- (iii) promote good governance to ensure compliance and enforcement; and
- (iv) enhance education, public awareness, and capacity building in various environment-related fields.



C. Responding to Climate Change

10. ADB is taking an active role in Asia and the Pacific to help address the causes and consequences of climate change, while ensuring continued economic growth and poverty reduction. ADB is increasing support by mainstreaming climate change considerations into its operations, mobilizing finance, building capacity, and facilitating knowledge transfer. Through a partnership approach, ADB is working with other multilateral development banks, consistent with the Clean Energy Investment Framework and the programming of resources through the Global Environment Facility (GEF) and the Climate Investment Funds (CIF).³

11. *Mitigation.* ADB actively promotes the use of renewable energy and clean and energy-efficient technologies, waste-to-energy programs, sustainable transport systems, sustainable land use, and forestry. Climate mitigation projects are financed through various bilateral and multilateral sources, including the ADB Climate Change Fund

³ CIF is administered jointly by ADB, World Bank, and other regional development banks. CIF provides large-scale financial resources to invest in projects and programs in DMCs.

(CCF) worth \$40 million and the Clean Energy Financing Partnership Facility (CEFPF) worth \$90 million.

12. Most recently, ADB has focused on increasing its support for clean energy investments in the region, while expanding its external partnerships on a range of climate change issues. ADB's clean energy initiatives in 2008 (\$1.7 billion) and 2009 (\$1.3 billion) have surpassed the \$1 billion annual lending target set in 2005. As of October 2010, clean energy projects amounted to \$527 million, with a projected \$1.34 billion by the end of the year. ADB recently increased its annual target of clean energy investments to \$2 billion starting in 2013.

13. To meet large-scale investment needs for sustainable infrastructure, ADB is working with private sector firms investing in clean energy and energy efficiency, as well as with the P-8 group of pension funds.⁴ To advance sustainable transport goals, ADB is working with more than 30 organizations under the Sustainable, Low-Carbon Transport Partnership, including International Energy Agency, Inter-American Development Bank, and African Development Bank. Among other efforts to promote technology research and development, ADB is also partnering with the Government of Australia to launch the Global Carbon Capture and Storage Institute to establish pilot commercial-scale carbon capture and storage facilities, as well as to promote cooperation between research institutes, governments, and the private sector to advance research, development, and deployment of carbon capture and storage.

14. *Adaptation.* ADB continues to support its DMCs in their efforts to build resilience to the adverse impacts of climate change by:

- (i) promoting the mainstreaming of adaptation and disaster risk reduction in national development plans and ADB country partnership strategies;
- (ii) helping them strengthen the climate resilience of vulnerable sectors such as agriculture, water, energy, transport, and health, including preparation of climate-resilient sector road maps; and
- (iii) providing climate proofing for individual projects.

15. ADB has been assisting DMCs in integrating climate change considerations in early stages of development planning and project development. Examples include the vulnerability assessment of the Khulna water sector in Bangladesh and the Ho Chi Minh City adaptation study. In Cambodia, a \$67 million Rural Roads Improvement Project, which has \$5.5 million funding from the Nordic Development Fund for adaptation activities, aims to rehabilitate and pave 505.4 kilometers of rural roads. In doing so, it will improve rural connectivity to paved national and provincial road networks. In Solomon Islands, ADB approved a \$24 million grant for the Second Solomon Islands Road Improvement Project⁵ to repair the infrastructure damaged by floods, and provide increased attention to changing climate patterns and the damage these can cause to infrastructure.

⁴ The P-8 group of pension funds comprises CalPERS, CalSTRS, New York State, British Columbia, AP7, APG, USS, ACSI, Korean National Pension Fund, and Norwegian Sovereign Wealth Fund.

⁵ ADB. 2009. *Report and Recommendation of the President to the Board of Directors: Asian Development Fund Grant and Administration of Grants Solomon Islands: Second Road Improvement (Sector) Project*. Manila.

16. ADB is also working with the United Nations Development Programme to climate proof some components of a \$130 million rural infrastructure project in central Viet Nam. With \$3.4 million support from the Special Climate Change Fund administered by the GEF, two to four subprojects providing rural infrastructure in two provinces will be climate proofed for possible replication. In addition, projects such as the *Padma Bridge Project* in Bangladesh and the *Xinjiang Altay Urban Infrastructure and Environmental Improvement Project* in PRC showcase the Bank's efforts in addressing the challenges of climate change through careful project design.

17. ADB is also providing assistance in mobilizing additional concessional and innovative finance to support DMCs' adaptation efforts by facilitating access to adaptation funds, particularly those managed by the GEF, the Kyoto Protocol Adaptation Fund, and ADB internal funds. Apart from this, ADB approved an additional \$10 million financing for CCF, with \$4 million allocated for projects on adaptation and strengthening climate resilience.

18. In June 2010, the Executive Board of the Kyoto Protocol Adaptation Fund approved ADB's application to serve as a Multilateral Implementing Entity, which provides new opportunities for ADB to assist DMCs in accessing adaptation funding streams for climate proofing vulnerable infrastructure and broader climate resilience support.

19. In addition, ADB worked closely with the governments, multilateral development banks and other development partners to support pilot countries (Bangladesh, Cambodia, Nepal, and Tajikistan) and the Pacific region in implementing the Pilot Program for Climate Resilience (PPCR),⁶ including the preparation of their Strategic Program for Climate Resilience (SPCR).⁷

D. Partnerships and Linkages

20. Responding to Asia's environmental challenges requires the full engagement of all development partners across the region, with each bringing its own unique mix of skills, interests, and objectives. To complement our core competencies and ensure targeted results, ADB continued to maintain partnerships with environmental non-government organizations such as WWF and the International Union for Conservation of Nature (IUCN); civil society; other development institutions, including the United Nations and GEF; and the private sector.

21. **Global Environment Facility.** ADB has been working closely with GEF since the mid-1990s. With the approval of ADB's direct access to GEF full project resources in 2002, the partnership has been further strengthened. ADB's portfolio of GEF projects has covered a range of focal areas, with projects focused on biodiversity conservation and natural resource management, sustainable land management and energy efficiency and climate change adaptation. Under the ADB-GEF partnership, there are currently 31 projects that have been submitted, seven of which have been endorsed by GEF. These projects benefit the global environment and promote sustainable livelihoods in local

⁶ PPCR is funded by the Strategic Climate Fund, one of the two funds in the Climate Investment Funds.

⁷ The PPCR Subcommittee, during its meeting on 10 November 2010, approved the proposed SPCR for Bangladesh and Tajikistan. Shortly after (on 12 November), a PPCR Pilot Countries Meeting was held in Washington, DC to exchange information and experiences from the design of the SPCRs.

communities. In 2010 alone, ADB was able to access GEF co-financing of almost \$48 million (\$36.7 million for projects with CEO endorsement and \$11.3 million for projects in various stages of approval).

22. The volume of business through the partnership is likely to increase. The fifth replenishment of the GEF was recently concluded in May 2010 at a level of \$4.25 billion, and GEF is seeking to mobilize at least another \$500 million over the next 4 years to help finance the costs of implementing National Adaptation Programs of Action. Table 2 highlights GEF projects approved in 2010.

Table 2: GEF Submissions & Approvals 2010 Summary

Project	GEF Grant Amount	Status
NEP: Kathmandu Sustainable Urban Transport	\$2,520,000	GEF CEO endorsed ¹
PRC: Integrated Ecosystem Management and Environmental Protection of Baiyangdian Lake Catchment	\$2,975,000	GEF CEO Endorsed
PRC: Integrated Renewable Biomass Energy Development Project	\$9,199,091	GEF CEO endorsed
INO: Citarum Watershed Management and Biodiversity Conservation Project	\$3,750,000	GEF CEO endorsed
PRC: PRC-GEF Partnership: Forestry and Ecological Restoration Project in Three Northwest Provinces (formerly Silk Road Ecosystem Restoration Project)	\$5,119,546	GEF CEO endorsed
REG: Strengthening Coastal and Marine Resources Management in the Coral Triangle of the Pacific	\$13,118,183	GEF CEO endorsed
Subtotal	\$36,681,820	
PRC: Jiangsu Yangcheng Wetlands System Protection Project	\$2,500,000	GEF Council approved ²
REG: Promoting Energy Efficiency in the Pacific	\$5,254,545	Project Preparation Grant (PPG) approved
INO: Sustainable Forest and Biodiversity Management In Borneo	\$2,527,273	PPG approved
REG: GHG Assessment Methodologies in Public Transport	\$1,000,000	Project Identification Form (PIF) approved for inclusion in work program
Subtotal	\$11,281,818	
TOTAL	\$47,963,638	

¹ GEF CEO Endorsement is the final stage in the GEF approval process.

² GEF Council approval is required before CEO Endorsement.

23. **WWF.** ADB and WWF signed a Memorandum of Understanding in 2001 toward the sustainable management of natural resources in Asia-Pacific. The partnership builds on synergies of each organization's strengths and their shared vision of poverty

reduction and environmentally sustainable development. Activities focus around joint projects and programs, information sharing and knowledge management, capacity building and the development of sustainable development policies and strategies. ADB and WWF have conducted annual consultations since 2002 to review progress of MOU activities, discuss new areas of focus, and conduct joint programming. Ongoing collaboration centers on the Greater Mekong Subregion-Core Environment Program, the Coral Triangle Initiative, and the Heart of Borneo Initiative. Opportunities are being explored for joint work on the Living Himalayas Initiative.

24. WWF has placed a partnership manager in ADB to help facilitate greater collaboration between the two institutions. In addition, WWF International Director General James Leape visited ADB Headquarters in October (as part of the ADB-WWF annual consultation) to discuss existing programs, as well as to explore new collaborations on issues of climate change, natural resource management and use, biodiversity conservation, and water. He presented ADB President Haruhiko Kuroda with a certificate of appreciation for ADB's work promoting environmental sustainability in the Asia and Pacific region.

25. **International Union for the Conservation of Nature.** The partnership between ADB and IUCN established in 2004 aims to support poverty reduction at the regional and sub-regional levels in Asia and the Pacific, and other development goals, including the achievement of the Millennium Development Goals at the regional and sub-regional levels. ADB and IUCN collaborate in the fields of environmental law, poverty and environment linkages, biodiversity, environmental impact assessment, project monitoring, coastal resources management, and completed a joint publication on Poverty, Health, and Ecosystems: Experience from Asia. Ongoing collaboration includes the Clean Air Initiative for Asian Cities and inputs into ADB's GMS Core Environment Program and Biodiversity Conservation Corridors Initiative. In addition, Environment CoP members represented ADB in the Annual Consultation with IUCN in December 2010. Climate change (particularly ecosystem-based adaptation) and environmental governance were discussed as possible key areas for future collaboration.

26. **United Nations Economic and Social Commission for Asia and the Pacific.** Since 1990, ADB has been a close partner of the United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP) in organizing ministerial conferences on environment and development, and in preparing the State of the Environment in Asia and the Pacific. Both efforts are instrumental in creating political and public awareness of regional environmental issues, and in driving the adoption of a regional strategy on environmentally sound and sustainable development. ADB and United Nations Environment Programme (UNEP), together with UNESCAP, are currently collaborating on the preparation of the report "Green Growth, Resources and Resilience." A preview of this report was launched and circulated during the Sixth Ministerial Conference on Environment and Development (MCED-6) held in Astana, Kazakhstan in September 2010. The report identifies key priorities, policy bottlenecks, and quick wins, as well as specific issues on which the region can lead the quest for greener, more inclusive and resilient growth.

27. **United Nations Environment Programme.** ADB and UNEP are cooperating to promote sustainable development and environmental management throughout the Asia and Pacific region. Currently, UNEP and ADB are collaborating in implementing the Clean Air Initiative for Asian Cities (CAI-Asia), and together with UNESCAP, on the

preparation of the report “Green Growth, Resources and Resilience” (as mentioned above). As member of the Advisory Panel, the Director of RSES attended the 13th Annual Advisory Meeting of the Regional Resource Centre for Asia and the Pacific, a joint initiative by UNEP and the Asian Institute of Technology. The meeting provided an opportunity to advise on the functioning of the resource center.

28. **Institute for Global Environment Strategies (IGES).** ADB and the Institute for Global Environment Strategies (IGES) signed a Letter of Intent on December 2010 to cooperate to support environmentally sustainable growth throughout the Asia and Pacific region. The Lol aims to guide and further strengthen the relationship between ADB and IGES based on mutual interests. Areas for collaboration include (i) climate change, including economic analysis, carbon market, forest management, local and global co-benefits and adaptation; and (ii) environmental management, including sustainable infrastructure, natural resource management, groundwater management and environmental governance.

29. **Asian Environmental Compliance and Enforcement Network (AECEN).** ADB played a key role in establishing the AECEN in 2005 along with the United States Agency for International Development (USAID) and other development partners. AECEN’s objective is to improve compliance with environmental laws in Asia through a regional exchange of innovative policies and practices. Members of AECEN are national and sub-national agencies from Asian countries committed to improving compliance and enforcement through regional cooperation and information exchange. Members presently include environmental agencies from: India, Indonesia, Japan, PRC, Malaysia, Nepal, Philippines, Singapore, Sri Lanka, Thailand, Viet Nam, South Korea, Lao PDR, Cambodia, Maldives, and Pakistan.

E. Knowledge Products

30. In 2010, ADB published several knowledge products related to environmental sustainability (Table 3). Several reports focused on climate change adaptation. A report, “Climate Risks and Adaptation in Asian Coastal Megacities,” was launched during the Asia Pacific Adaptation Forum, with a related press event held at the Foreign Correspondents’ Club of Thailand. A joint publication of ADB, Japan International Cooperation Agency (JICA), and World Bank, the report highlights climate-related risks and impacts in coastal megacities in developing countries using case studies of three cities (Bangkok, Ho Chi Minh, and Manila) that are different in their climate, hydrological, and socioeconomic characteristics.

Table 3: Environment-related Knowledge Products in 2010

Date Published	Title
January	Ho Chi Minh City Adaptation to Climate Change: Summary Report
January	Harmonization of EIA in Support of the Ha Noi Core Statement on Aid Effectiveness: Development of Guidelines for Environmental Management Plan and Public Consultation in EIA (Final Report)
April	Asian Judges: Green Courts and Tribunals, and Environmental Justice
April	Central Asia Atlas of Natural Resources
May	Climate Proofing Timor-Leste's Roads

Date Published	Title
June	Climate Change Adaptation in Himachal Pradesh: Sustainable Strategies for Water Resources
June	Clean Energy in Asia: Case Studies of ADB Investments in Low-Carbon Growth
June	Carbon Efficiency, Carbon Reduction Potential, and Economic Development in the People's Republic of China: A Total Factor Production Model
July	Greenhouse Gas Implications of ADB's Energy Sector Operations
July	Reducing Carbon Emissions from Transport Projects
August	Addressing Climate Change in Asia and the Pacific: Impacts on Food, Fuel, and People
September	Climate risks and adaptation in Asian coastal megacities: a synthesis report
September	Preview – Asian Environment Outlook 2010: Green Growth, Resources, and Resilience
October	Dryland Ecosystems: Introducing an Integrated Management Approach in the People's Republic of China
October	An Eco-Compensation Policy Framework for the People's Republic of China: Challenges and Opportunities
October	Strategic Directions of Asian Development Fund Operations for Promoting Climate Change Mitigation and Adaptation
November	National REDD+ Strategies in Asia and the Pacific: Progress and Challenges
November	Eco-City Development: A New and Sustainable Way Forward?
December	Payments for Ecological Services and Eco-Compensation: Practices and Innovations in the People's Republic of China
December	Methodology for Estimating Carbon Footprint of Road Projects: Case Study: India
December	Knowledge Management on Air Quality: Case Studies

III. ENVIRONMENT CoP ACCOMPLISHMENTS IN 2010

31. Through the leadership of the Environment Committee and with participation from its members, the Environment CoP is actively engaged in mainstreaming environment in ADB operations. As discussed in the sections below, notable accomplishments of the CoP in 2010 include the following:

- Improved project quality through 18 EIA Peer Review Sessions;
- Enhanced knowledge sharing by holding several internal workshops (19 green bag sessions) and supporting OD staff participation in international and regional conferences (MCED 6, Tenth Conference of the Parties to the United Nations Convention on Biological Diversity [UNCBD COP10], Better Air Quality [BAQ] 2010 Conference, 30th Annual Meeting of the International Association for Impact Assessment); and
- Articulated Asian voice in preparations for the 2012 UN Conference on Sustainable Development or Rio+ 20 through the report “Green Growth, Resources and Resilience” (preview report) jointly with UNESCAP and UNEP.

32. One of the main vehicles through which the CoP conducts its mainstreaming efforts is the *Mainstreaming Environment for Poverty Reduction* (RETA 6422), for which the CoP Environment Committee serves as the steering committee. The RETA helps support environmental mainstreaming in a number of ways, including: systematically capturing and disseminating knowledge on poverty-environment relations; identifying and demonstrating self-sustaining environmental management interventions (i.e. through pilot projects and analytical studies); and increasing integration of environmental consideration in ADB operations and business processes (i.e. through country partnership strategies and program and project design). To help accomplish these outcomes, TA-funded locally-recruited Environment Specialists have been assigned to six resident missions – Bangladesh, Lao PDR, Mongolia, Pakistan, People’s Republic of China, and Viet Nam.

A. Articulating ADB Corporate Strategy on the Environment

33. The Environment CoP is providing ongoing guidance in the preparation of the Environment Strategic Directions paper by reviewing and validating the priorities of the draft strategy. The paper aims to articulate the ADB environment agenda into a coherent strategic framework for the next ten years in line with Strategy 2020. Environmental sustainability is one of ADB’s three development agendas and one of the five core areas of operations under Strategy 2020, which places central emphasis on climate change, livable cities and a range of complementary and supportive actions promoting improved environmental management.

34. This paper builds on ongoing ADB operations in support of the environment, including climate change, and identifies areas that can be given greater attention in the future. It proposes that special attention be given to three mutually supportive areas: (i) *promoting transitions to sustainable infrastructure*; (ii) *improving natural resource management and maintaining ecosystem integrity*; and (iii) *enhancing environmental governance and management capacities*. In addition, promoting low carbon growth and climate adaptation to address both the causes and consequences of climate change, is identified as a cross-cutting operational priority.

B. Environmental Mainstreaming in Country Partnership Strategies

35. The Environment CoP maintains an advisory role in the preparation of Country Environmental Analyses (CEAs)⁸ to help strengthen the environmental sustainability dimensions of CPSs and identify initiatives towards sustainable development.

36. Perhaps most significantly, a joint ADB-World Bank CEA was undertaken for the Philippines through RETA 422, with the Environment CoP providing advisory support. A draft of the assessment was completed in August and will be finalized in early 2011. It presents recommended policy, institutional and investment responses and an action plan for consideration by the government focusing on natural resources, environmental health and climate change.

⁸ The CEA covers general environmental status and trends in a country, discusses the policy, legislative, institutional and budgetary framework for environmental management, and addresses principal constraints and barriers to improved environmental management in sectors relevant to ADB operations.

37. Through the six Environmental Specialists mentioned above, RETA 6422 actively supports mainstreaming environmental considerations into the CPS process. The specialists provided technical expertise by drafting and assisting in the preparation of various country programs and reports such as the CEA and Country Performance Assessment (CPA).

C. Enhanced Quality Assurance of ADB Projects

38. With RSES acting as Secretariat, members of the Environment CoP took part in peer review sessions to assess environmental assessment reports and enhance the environmental safeguards and environmental management plans of Category A projects. An important focus of this year's peer review sessions is the implementation of new Environment Safeguards provisions under Safeguards Policy Statement (SPS), including biodiversity conservation, GHG accounting, and community health and safety. The SPS was approved by ADB's Board of Directors in July 2009. The SPS aims to avoid, minimize, or mitigate harmful environmental impacts, social costs, and to help borrowers/clients strengthen their safeguard systems.⁹

39. The Environment CoP held a total of 18 Peer Review Meetings in 2010 to evaluate different development projects on urban infrastructure, roads, bridges, transport, and energy (Table 4). Substantive comments are received during these peer reviews and attendance from other departments have been notably increasing.

Table 4: EIA Peer Review Meetings

Date	Dept.	Speaker(s)	Project
19-February	EARD	Xiaohong Yang and Seiji Noda	PRC: Western Yunnan Roads Development II Project
07-May	SERD	Michael Kent, SETU Consultant	VIE: Hanoi Metro Rail System Project
3-June	SERD	David Lees, Consultant	VIE: GMS Ben Luc-Long Thanh Expressway Project
5-July	SARD	Hideaki Iwasaki and Karma Yangzom	BAN: Padma Multipurpose Bridge Project
15-July	CWRD	Mark Kunzer, Giay Hy Hong, CWRD and Ruby Socorro Arico (consultant)	TAJ: CAREC Transport Corridor III (Dushanbe-Uzbekistan Border Road) Project
20-July	EARD	Seiji Noda and Steven Lewis-Workman	MON: Western Regional Roads Development II Project
6-August	CWRD	Arto Ahonen and Klaus Schonfeld	ARM: Proposed North-South Road Corridor Investment Program, Tranche 2
13-September	CWRD	Takeo Koike, Shih-Liang Tu and Matthew Corbett	PAK: Uch li Power Project
14-September	CWRD	Takeo Koike, Shih-Liang Tu and Matthew Corbett	PAK: Patrind Hydropower Project

⁹ Building off of ADB's previous safeguard policies on the environment, involuntary resettlement, and Indigenous Peoples, the SPS provides a consolidated policy framework that more comprehensively addresses environmental and social impacts and risks. The SPS also provides a platform for participation by affected people and other stakeholders in project design and implementation.

Date	Dept.	Speaker(s)	Project
13-October	SERD	Bui Duy Thanh and Genandrialine Peralta	VIE: O Mon IV Gas Power Project
18-October	EARD	Jiangmin Huang, Antoine Morel and Neil Urwin	PRC: Xinjiang Altay Urban Infrastructure and Environment Improvement Project
27-October	CWRD	Prianka Seneviratne and Dan Millison	KGZ: CAREC Transport Corridor 1 (Bishkek-Torugart Road) Project 3
28-October	EARD	Qingfeng Zhang (EAAE) and Robert Crooks (Consultant)	PRC Country Environmental Analysis peer review meeting
4-November	CWRD	Manzoor Rehman and Mark Kunzer	KAZ: CAREC Transport Corridor 1 (Zhambyl Oblast Section) [Western Europe-Western PRC International Transit Corridor] Investment Program Tranche 3
9-November	EARD	Frank Radstake	PRC: Hai River Estuary Area Pollution Control and Ecosystem Rehabilitation Project
15-November	EARD	Antoine Morel and Hongshan Wang (consultant)	PRC: Gansu-Tianshui Urban Infrastructure Development Project
19-November	EARD	Antoine Morel and Satoshi Ishii (EASS), and Si Zhizhong (consultant)	PRC: Guangxi Beibu Gulf Cities Development Project
26-November	EARD	Seiji Noda, EARD and Martin Williams, Consultant	PRC: Inner Mongolia Road Network Development Project (subproject in Dalai Lake Nature Reserve)

Note: These projects have yet to be approved as of 11 January 2011 (per [ADB website](#)).

D. Strengthened Environmental Management Capacity of DMCs

40. The Environment Specialists funded under the RETA 6422 supported the implementation, monitoring and evaluation of various loan projects in their respective countries. The Environment Specialists provided support which includes preparing, reviewing, and revising Initial Environment Examination (IEE), Environmental Assessment and Review Framework (EARF), and EIA for various loan projects as well as reviewing environmental monitoring reports and participating in regular field reviews to ensure that projects comply with ADB environmental and social safeguard policies.

41. The national Environment Specialists also actively coordinated with and participated in local donor groups on the environment in their respective countries. In that capacity, they participated in various nationally important events on environment and climate change, coordinated with development partners groups and GEF focal points on possible financial support, and assisted ADB environment-related TAs in coordinating with government organizations.

42. RETA 6422 also promotes targeted interventions in DMCs through the provision of funding for pilot interventions, targeted analytical studies, and information dissemination. Subprojects are focused on three prioritized areas:

- (i) Protection, conservation, and sustainable use of natural resources and ecosystem services to maintain the livelihoods of the poor;
- (ii) Reduction of air and water pollution and waste that directly impacts the health and productivity of the poor; and
- (iii) Reduction of vulnerability to natural hazards and disaster prevention.

43. At present, the subproject pipeline stands at 15 proposals, seven of which have been approved by the Environment Committee in 2010 (Table 5). Six other proposals are currently being refined and are nearing the approval stage. Another two proposals are still in concept stage. Together, these proposals are worth nearly \$3.3 million, with over \$2.5 million of MEPR funding. The remaining funds, nearly \$800,000 (or 25%), will come from partner contributions, in cash and/or in kind.

Table 5: Approved Subprojects under RETA 6422 (2010)

RD/RM and country	Subproject Title	Intervention Type	Theme	Total Project Cost	MEPR Funding Request
BRM - Bangladesh	Community Based Adaptation in Vulnerable Coastal Areas of Bangladesh	Pilot Intervention	Vulnerability Reduction	\$240,100	\$180,000
MNRM - Mongolia	Poverty-Environment Mapping to Support Decision Making	Pilot Intervention	Natural Resources	\$110,000	\$80,000
MNRM - Mongolia	Improving Pasture and Water Management with Participation of Local Community in Degraded Pasture Areas and Deserted Zones (Sustainable Livelihoods and Vulnerability Reduction)	Pilot Intervention	Natural Resources	\$55,000	\$40,000
PARD - Fiji and Solomon Islands	Strategies for Pro-Poor Adaptation to Climate Change in Small Island Communities	Analytical Study	Pollution and Health	\$150,000	\$150,000
PARD - Solomon Islands	Testing effective models for governance and implementation of REDD+	Pilot Intervention	Natural Resources	\$350,000	\$250,000
RSDD - Regional	Capturing Biological and Cultural Diversity in the Coral Triangle	Analytical Study	Natural Resources	\$350,000	\$113,000
RSDD - Regional	Asian Living Planet Report	Analytical Study	Vulnerability Reduction	\$120,000	\$73,500
SARD - Sri Lanka	Piloting pro-poor and gender-responsive sanitation options in under-served urban settlements in Colombo	Pilot Intervention	Pollution and Health	\$325,000	\$250,000
VRM - Viet Nam	Development of Analytical Tools for Water Pollution Control to Improve the Livelihood of the Poor	Pilot Intervention	Pollution and Health	\$212,000	\$180,000
		Subtotal		\$1,912,100	\$1,316,500

44. In addition, *Strengthening and Use of Country Safeguard Systems* (TA 7566) was approved by the Board for an initial amount of \$5M. This TA will provide demand driven-support for (i) strengthening and effective implementation of CSS through a series of subprojects; (ii) conduct of diagnostic studies and knowledge exchange and dissemination; and (iii) mobilization of resources toward CSS capacity development activities in cooperation with other development agencies. A healthy portfolio of thirteen

subprojects have been identified from operational departments and will focus on updating legislation on environment and involuntary resettlement and capacity development of financial intermediaries in implementing environmental and social management systems.

E. Green Bags

45. In response to requests and suggestions from its members, the CoP organized green bag sessions to disseminate information on best practices, projects, and new knowledge areas to the environment community. From February to October 2010, 19 Green Bag Seminars were conducted (Table 6). The seminars were conducted on a wide range of topics, including biodiversity, ecosystem services, climate change, and sustainable transport.

Table 6: Green Bag Sessions Conducted in 2010

Date	Speaker	Topic	Institution
10 February	Roger Plant	Social safeguards seminar: Indigenous safeguards, indigenous development and inclusive growth: Getting the balance right	RSES International Consultant
15 February	Maria Pia Ancora	Mercury control policies for coal-fired power sector in PRC	Italian National Research Council
1 March	Juan Quintero	Mainstreaming natural habitats concerns for green growth and sustainable infrastructure	World Bank
2 March	Andreas W. Koenig	Strategy for eco-industry cluster development in Asia	Re-Tem Corp.
27 April	Roland Haas	Joint Presentation for Transport, Urban and Environment CoPs-Supporting Sustainable Urban Transport, Air Quality, and Climate change in Secondary Cities in Asia	Clean Air For Smaller Cities in the ASEAN Region
25 May	Robert Ward	Joint Environment CoP green bag/Law and policy reform purple bag-US EPA's International Environmental Governance and Law Initiatives	US Environmental Protection Agency
1 June	Bob O'Keefe and Sameer Akbar	Joint Environment, Transport, Health and Energy CoPs seminar-(i) Health Impacts of Exposure to Traffic-related Air Pollution and (ii) Co-benefits of Climate Change Mitigation and Local Environmental Benefits	Health Effects Institute (B. O'Keefe) and World Bank
4 June	Rod Fuentes and Javed Mir	Sustaining Biodiversity and Ecosystem Services	ASEAN Center for Biodiversity, ADB
4 June	Dr. Rao Surapmalli	Nanotechnology and Environment	US Environmental Protection Agency
8 July	Timothy Geer	Agriculture, rural development, and food security and environment CoPs seminar: Food security and environment-Two stories	WWF
26 July	Pavit Ramachandran	Payment for Ecosystem Services and Strategic Environmental Assessments (SEAs) in the GMS	ADB

Date	Speaker	Topic	Institution
27 August	Warren Evans	The Economics of Adaptation to Climate Change	World Bank
1 September	G. Thomas	Global Dam Reoptimization Initiative	National Heritage Institute
20 September	Norio Saito	Strengthening the Resilience of the Water Sector in Khulna, Bangladesh to Climate Change	ADB
21 September	Tariq Aziz	Living Himalayas Initiative	WWF
14 October	Sophie Punte	Vehicle fuel economy standards in the ASEAN: Need for harmonized approach	CAI-Asia
15 October	O. P. Agarwal	Sustainable Urban Mobility Initiatives in India	World Bank
15 October	Yannick Glemarec	Engineering Investibility in Environment	UNDP
29 October	Eric Zusman	Introduction to Transport Co-benefits Guidelines	IGES

F. International and Regional Forums

46. In 2010, members of the Environment CoP were active in a number of major international and regional forums (Table 7). Some of the more notable events are highlighted below.

47. In June, RSDD, in concert with the Environment CoP, supported the sharing of knowledge and best practices on EIA in Manila through the *Regional Workshop on Environmental Impact Assessment in Asia* in partnership with AECEN.

48. In September, ADB along with senior decision makers in the Asia and Pacific region participated in the Sixth Ministerial Conference on Environment and Development in Astana, Kazakhstan to discuss the sustainable development agenda in the region as input into the preparation for the Earth Summit 2012. In the conference, ADB presented the preview report of the 2010 Asian Environment Outlook Report: *Green Growth, Resources and Resilience*, a report jointly prepared by ADB, UNESCAP and United Nations Environment Program (UNEP).

49. An ADB mission participated in the UNCBD COP10, which was held from 18-29 October in Nagoya, Japan. The mission was led by VPKM, with participation of CoP members from EARD, PARD, RSDD, and SERD. ADB was actively involved over the two week duration of COP10, with participation in a series of high level forums, side events and bilateral meetings with development partners, including hosting a high level event on Partnerships for Critical Ecosystems in Asia and the Pacific.

50. ADB, through the Asia Pacific Adaptation Network (APAN) and together with UNEP and other partners, co-organized the first *Asia Pacific Adaptation Forum* in October 2010 in Bangkok. More than 500 participants attended consisting mostly of development partners, policymakers, practitioners, researchers, and NGOs. The forum provided a venue to share practices, knowledge, tools, and experiences on mainstreaming adaptation to climate change into development planning in Asia and the

Pacific. VPKM gave a keynote address during the opening of the Forum where she emphasized knowledge, capacity development, and finance as key elements for successful climate change adaptation efforts.

51. CoP members participated in the Better Air Quality 2010 Conference in Singapore on 9-11 November 2010, chaired sessions and made several presentations on air quality management and sustainable transport. This year's theme is "Air Quality in a Changing Climate." Discussion streams included sustainable urban development, ambient air quality and impacts, air quality and GHG management, transport modes and systems, clean fuels and vehicles, and industries and households.

Table 7: Conferences, Meetings and Seminars Attended by Environment CoP

Date	Title
24-25 February	UNEP 11th Session of the Governing Council / Global Ministerial Environment Forum, Bali
6-11 April	30th Annual Meeting of the International Association for Impact Assessment (IAIA), Washington D. C.
10-12 May	MFI Working Group on Environment, Luxembourg
12-13 May	WWF Annual Conference, Kota Kinabalu
24-28 May	Fourth GEF Assembly, Punta del Este, Uruguay
9-10 June	ADB/AECEN Regional Workshop on "Environmental Impact Assessment in Asia: Good Practices and Capacity Needs", ADB HQ
10-12 June	9 th Asia Pacific Roundtable for Sustainable Consumption and Production
28 June - 2 July	GEF Council Meeting
22-23 July	ADB Workshop on sustainable and net-zero buildings: Trends and Technologies, ADB HQ
28-29 July	Asian Judges Symposium on Environmental Decision-making, the Rule of Law and Environmental Justice, ADB HQ
27 September - 2 October	Sixth Ministerial Conference on Environment and Development, Astana
18 – 29 October	Convention on Biological Diversity 10 th Meeting of Conference of the Parties, Nagoya
20 October	Meeting of the Advisory Panel on Regional Climate Change Adaptation Platform for Asia, Bangkok
21 – 22 October	Asia Pacific Adaptation Forum, Bangkok
22 October	13 th Annual Advisory Meeting of the AIT-UNEP Regional Resource Centre for Asia and the Pacific, Bangkok
9-11 November	Better Air Quality 2010 Conference, Singapore
15-16 November	IAIA Special Symposium on Climate Change, Washington D. C.
17-19 November	MFI-Working Group on Environment, Washington D. C.

Date	Title
17-18 November	IAIA Training on Strategic Environment Assessment and Climate Change, Washington D. C.
15-19 November	GEF Council Meeting, Washington D. C,
24-26 November	Environments of the Poor Conference, New Delhi
9 December	IUCN Annual Consultation, Bangkok

G. Safeguards Trainings

52. In 2010, CoP members participated in the delivery of four 3-day safeguards orientation workshops, which were attended by about 160 staff in HQ and resident missions in November. The objectives of the workshops were to help ADB staff to (i) articulate the overall safeguard policy objectives, scope, principles, and requirements for environment, indigenous peoples, and involuntary resettlement; (ii) present changes to existing safeguards and their implication/impact on project preparation, processing, and implementation; and (iii) apply procedures to help borrowers/clients ensure compliance with the safeguards requirements in key stages of the project cycle.

53. From January to March 2010, ADB also conducted in-country briefings in eight resident missions, namely Cambodia, Lao PDR, Philippines, Indonesia, India, Nepal, Pakistan, and Mongolia, to orient in-country stakeholders with the features of the new Safeguard Policy Statement. Representatives from government, the private sector, project implementation partners, and civil society participated in these briefings.

H. Institutional Environmental Programs

54. ***Environmental Management Program in headquarters.*** The Environment CoP provided technical support to the implementation of ADB's corporate environmental program. In 2003, ADB became the first multilateral development bank to achieve ISO 14001 certification and OHSAS 18001 certification for its Environmental Health and Safety Management System (EHSMS). ADB received recertification twice for its EHSMS since then - in 2006 covering 2006-2008 and in 2009 covering 2009 to 2011. It also continues to comply with 40 government legal requirements that apply to building operation and facilities. An audit of its EHSMS shows that the trend in number of observations and issued corrective preventive action requests is decreasing showing effectiveness of control measures put in place.

55. ADB continues to introduce initiatives to further reduce its corporate environmental footprint. It inaugurated the rainwater harvesting facility during the World Environment Day. This facility harvests 21,000 cubic meters of rainwater annually representing 15% of ADB's water consumption and generating \$19,800 in savings. ADB also applied for LEED Certification for Existing Building: Operations and Maintenance and submitted to the US Green Building Council the required documentation indicating a total of 67 points that would garner for ADB a LEED Gold rating. The award of LEED Certificate is expected shortly. ADB also plans to certify against the ISO 50000 System for Energy Management. Based on the relevant requirements of the Energy Management System anchored on energy consumption, ADB is expected to meet about

70% of these requirements based on its EHSMS programs. ADB also plans to install solar panels in rooftops of its new car park building, the third atrium to be constructed and other facilities to collect solar energy.

56. In connection with ADB's application for LEED Certification, the Environment CoP partnered with the Energy CoP in organizing and funding the Workshop on Sustainable and Net-Zero Buildings: Trends and Technologies. The 2-day workshop was conducted on different topics on green buildings which provided ADB staff with a more thorough and in-depth understanding of: (i) green building and maintenance practices – concepts and practical lessons; (ii) Leadership in Energy & Environmental Design (LEED) system and obtaining credits at various levels (silver, gold, platinum); and (iii) new ways of measuring carbon footprint. ADB staff members were also given the opportunity to participate in a discussion forum with green building practitioners.

57. **Organized with OAS and RSDD the celebration of World Environment Day 2010.** Activities included in the commemoration of the 2010 World Environment Day were a seminar on Sustaining Biodiversity and Ecosystem Services by ASEAN Center for Biodiversity and a photo exhibit of ADB's Biodiversity Conservation projects which is in line with the World Environment Day 2010 theme of "Many Species. One Planet. One Future", and inauguration of the rainwater harvesting facility at ADB HQ.

IV. PRIORITY 2011 WORK PROGRAM

58. For 2011, the Environment CoP is expected to play a larger role in supporting ADB in addressing environmental challenges in the region. The following highlights the work program of the Environment CoP for 2011.

A. Environmental Mainstreaming

59. The Environment CoP will provide technical support in implementing the Environmental Strategic Directions in support of Strategy 2020, enhance environment components of projects by providing specialist inputs during project preparation and processing, and through peer reviews of EIAs of Environment Category A projects.

60. The CoP will also work to strengthen environmental sustainability dimensions of CPSs through upstream analytical work. To this end, the CoP will seek to incorporate environmental considerations into the CPS process in view of streamlined business process. A proposal still in the development stage calls for a focused thematic environmental analysis in the form of a Country Environment Note (CEN), a highly analytical and concise (no more than 10 pages) document that would be available prior to the preparation of the CPS Zero draft Initiating Paper. Development of this document would help ensure that CEA recommendations are effectively integrated into the CPS process through dialogue and discussion.

61. Under the PEF-financed technical assistance *Mainstreaming Environment for Poverty Reduction*, National Environment Specialists will play an even greater role in ADB's pro-active environment agenda. This includes the matching of DMCs support needs with environment and climate change finance available through a range of financing modalities, such as the GEF, the CIF, the Adaptation Fund, and the CEFPPF.

62. The Environment CoP will also continue to support ADB in building partnerships with other agencies and institutions to broaden, replicate, and sustain the impact of its efforts; complement and draw upon the comparative advantage of partners; mobilize additional research, knowledge, and financial resources; and ensure coordination, avoid duplication, and maximize effectiveness in the use of scarce resources in DMCs. This will include building and strengthening strategic alliances with key NGOs and civil society entities, the private sector, multi-lateral and bilateral development assistance agencies, sub-regional institutions, and international organizations.

B. Capacity Development

63. There is an ongoing need for heightened involvement and participation among ADB staff on environmental issues and activities. To support the capacity development of ADB staff on environment knowledge areas, the Environment CoP will hold training programs and bring in experts on new knowledge areas, such as Strategic Environment Assessment and Biodiversity Assessment and Monitoring. Members of the Environment CoP will continue to actively participate in conferences and other learning events.

64. Other activities under capacity development are Environment CoP meetings and retreats, and participation in appointment and promotion panels. The Environment CoP will also explore opportunities for capacity-building by organizing seminars or internal training courses on environment-related topics and issues (beyond its current green bag sessions).

C. Knowledge Development and Dissemination

65. The Environment CoP will develop a number of new knowledge products, including the Environment Thematic Report, Environment Program Progress and Prospects 2011, The Economics of Ecosystems and Biodiversity for Asia Report, and the Sustainability Report 2011.

66. In 2011, the Environment CoP will also distribute the finalized report “Green Growth, Resources and Resilience,” disseminate information and stimulate discussion on new knowledge areas (e.g., sustainable ecosystems management, environmental governance, climate resilience, green growth) through green bag sessions, and maintain a number of informative websites (e.g., PE Net, ADB Environment, and Environment CoP websites). Active engagement in the preparations for the UN Conference on Sustainable Development 2012 Rio+20 will also be pursued.

67. The CoP will also continue to emphasize knowledge products focused on climate change adaptation as part of an overall effort to step up policy research, knowledge creation, and capacity building through use, support, and documentation of:

- (i) climate impact and vulnerability assessments;
- (ii) adaptation tools and methods (including screening checklists, sector brief sheets, and detailed technical guidance notes on building sector resilience and climate proofing projects);
- (iii) innovative adaptation approaches including ecosystem-based adaptation (such as improving coastal protection via preservation of mangroves);

- (iv) economic analyses of climate impacts and responses; and
- (v) enhanced access to, and practical application of the growing body of knowledge on adaptation in DMCs, in partnership with APAN.

68. The establishment of an Environment CoP intranet website is in the pipeline for 2011. This site will not replace the current CoP website (located on MyADB), but will instead complement it. The planned website will allow the CoP to share the growing archive of environment knowledge to the Bank, as well as keep the rest of the community informed on what the latest activities are. The website will be a centralized source of documents and materials regarding environment and safeguard components of ADB projects, and relevant to a bankwide audience, but have been traditionally stored in restricted-access drives. The site contents will include a list of important resources, databases and websites, which are constantly needed during reviews but have not been compiled for the community's benefit. The new website will be the main instrument for the Environment CoP to share and disseminate information to its members.

V. CONCLUSIONS

69. The Environment CoP has provided substantive support in taking forward the environment agenda in ADB's operations and will continue to do so in 2011 and beyond. Knowledge and practice on environmental mainstreaming and safeguards were deepened through participation in important learning events such as the green bag sessions, and collaboration with other CoPs. The conduct of EIA peer reviews has played an important role in ensuring quality and consistency with the Safeguard Policy Statement which became effective in January 2010. The Environment CoP's members' active participation in important conferences such as the IAIA conference, and the COP Meetings of Multilateral Environment Agreements and several other meetings with regional organizations has raised ADB's profile in the regional and international community on environment, and has enabled ADB to make substantive contributions to these processes. Knowledge products have helped shape the debate on environmentally sustainable growth in the region, including the release of the preview report on "Green Growth, Resources, and Resilience" at the Sixth Ministerial Conference on Environment and Development in September 2010. The COP has also played a role in strengthening human resources management. In this regard, the inclusion of Environment CoP Chair and Co-chair as members of BPMSD panels for appointment and promotions of Environment Specialists is a good practice and should be continued. Looking ahead, the CoP will continue to have a key role in the articulation and implementation of Environment Strategic Directions towards achieving the objectives of Strategy 2020 and in supporting ADB's contributions to the preparations for Rio + 20 in 2012.

Approved Loan Projects with Environment Sustainability as a Theme (2010)

PROJ NO.	LOAN DMC	Region	LOAN TITLE	Amount (in millions, US\$)
40921	AFG	CW	Sungas LLC for the LPG Distribution Development	8.00
43931	AZE	CW	Garadagh Cement Expansion and Energy Efficiency	27.00
43406	AZE	CW	Janub Gas-Fired Power Plant	232.32
38164	BAN	SA	Natural Gas Access Improvement	266.00
40534	BAN	SA	Second Crop Diversification	40.00
39298	BAN	SA	City Region Development	120.00
40515	BAN	SA	Sustainable Rural Infrastructure Improvement	60.00
38558	CAM	SE	Water Resources Management Sector Development Program	30.00
41373	CAM	SE	Public Financial Management for Rural Development Program (Subprogram 2)	10.00
42414	GEO	CW	Sustainable Urban Transport Investment Program - Tranche 1	85.00
38412	IND	SA	Assam Integrated Flood and Riverbank Erosion Risk Management Investment Program - Tranche 2	56.90
41598	IND	SA	National Capital Region Urban Infrastructure Financing Facility - Tranche 1	78.00
40648	IND	SA	Infrastructure Development Investment Program for Tourism - Tranche 1	43.42
40156	IND	SA	Sustainable Coastal Protection and Management Investment Program - Tranche 1	51.56
41626	IND	SA	Bihar Power System Improvement	132.20
41627	IND	SA	Himachal Pradesh Clean Energy Development Investment Program - Tranche 3	208.00
40031	IND	SA	Rajasthan Urban Sector Development Investment Program - Tranche 3	63.00
40061	INO	SE	Java-Bali Electricity Distribution Performance Improvement	50.00
39071	INO	SE	Metropolitan Sanitation Management and Health	35.00
44236	KGZ	CW	Emergency Assistance for Recovery and Reconstruction	48.50
44281	KIR	PA	Road Rehabilitation	12.00
41192	MON	EA	Regional Logistics	45.00
36188	NEP	SA	Secondary Towns Integrated Urban Environmental Improvement	60.00
44058	NEP	SA	Kathmandu Sustainable Urban Transport	10.00
43937	PAK	CW	Zorlu Enerji Power	36.80
34339	PAK	CW	Renewable Energy Development Sector Investment	200.00

PROJ NO.	LOAN DMC	Region	LOAN TITLE	Amount (in millions, US\$)
			Program - Tranche 2	
38456	PAK	CW	Power Distribution Enhancement Investment Program - Tranche 2	242.00
44031	PAL	PA	Water Sector Improvement Program	16.00
41504	PNG	PA	Town Electrification Investment Program- Tranche 1	57.30
42117	PRC	EA	Tianjin Integrated Gasification Combined Cycle Power Plant	135.00
42936	PRC	EA	Songhua River Basin Water Pollution Control and Management Project Private Sector Facility	146.62
40682	PRC	EA	Integrated Renewable Biomass Energy Development Sector	66.08
42011	PRC	EA	Wuhan Urban Environmental Improvement	100.00
42012	PRC	EA	Chongqing Urban-Rural Infrastructure Development Demonstration	100.00
42010	PRC	EA	Guangxi Southwestern Cities Development	150.00
40634	PRC	EA	Inner Mongolia Autonomous Region Environment Improvement Project (Phase II)	150.00
44905	PRC	EA	Municipal Natural Gas Infrastructure Development (Phase 2)	200.00
42022	PRC	EA	Jiangxi Sustainable Forest Ecosystem Development	40.00
44928	PRC	EA	Jilin Wind Power	240.00
40683	PRC	EA	Risk Mitigation and Strengthening of Endangered Reservoirs in Shandong Province	29.80
43332	PRC	EA	Railway Energy Efficiency and Safety Enhancement Investment Program - Tranche 2	100.00
44927	REG	RE	Asia Water Fund	20.00
44926	REG	RE	Clean Resources Asia Growth Fund and Renewable Energy Fund	40.00
37378	SRI	SA	Jaffna and Kilinochchi Water Supply and Sanitation	90.00
43936	THA	SE	Solar Power	70.00
44931	THA	SE	Bangchak Solar Power	134.31
43151	UZB	CW	Talimarjan Power	350.00
42489	UZB	CW	Water Supply and Sanitation Services Investment Program - Tranche 2	140.00
40253	VIE	SE	Greater Mekong Subregion Biodiversity Conservation Corridor	30.00
41414	VIE	SE	Greater Mekong Subregion Ben Luc-Long Thanh Expressway Project - Tranche 1	350.00
39500	VIE	SE	Ho Chi Minh City Urban Mass Rapid Transit Line 2 Investment Program - Tranche 1	40.00
TOTAL				5,045.81

Approved TA Projects with Environmental Sustainability as a Theme (2010)

TA No.	Region	DMC	Project Title / Loan (US\$ million)	Amt
	SARD	BAN	Strengthening Regional Planning and Governance (formerly Strengthening management of City Regions)	675,000
	SARD	BAN	Energy Efficiency Improvement (formerly Solar Powered Street Lights and Energy Efficient Water Pumps)	1,500,000
7559	CWRD	GEO	Regional Power Transmission Enhancement Project & Reallocation of Funding	1,200,000
7551	CWRD	GEO	Developing a Geospatial Urban Water supply and Sanitation Utility Management System	800,000
7492	CWRD	GEO	Developing an Urban Water Supply and Sanitation Sector Strategy and Regulatory Framework for Georgia	862,500
7661	SARD	IND	Himachal Pradesh Clean Energy Evacuation	500,000
	SARD	IND	Capacity Development for Project Management of Infrastructure Development for Rural Livelihood Enhancement – amount TBD	1,000,000
	SERD	INO	Institutional Strengthening for the Water Resources Sector	500,000
7562	SERD	INO	Capacity Development for Metropolitan Sanitation Management and Health Project	1,500,000
7583	SERD	INO	Geothermal Power Development Project	1,500,000
7509	SERD	LAO	Capacity Enhancement for coping with Climate Change	3,100,000
7567	SERD	LAO	Pakse Urban Environmental Improvement Project	700,000
7619	EARD	MON	Updating the Energy Sector Development Plan	1,000,000
7502	EARD	MON	Ulaanbaatar Low Carbon Energy Supply Project Using a Public-Private Partnership Model	1,500,000
7591	EARD	MON	Ulaanbaatar Water and Sanitation Services and Planning Improvement	600,000
	SARD	NEP	Energy Sector Capacity Building	600,000
7590	SARD	NEP	Preparing Hydropower Development for Energy Crisis	2,000,000
7504	SARD	NEP	Increasing Access to Energy in Rural Nepal	933,000
7597	SARD	NEP	Capacity Building for Waste Management	500,000
7569	PSOD	PHI	Three Wind Farm Projects in Luzon	630,000
	SERD	PHI	Decentralized Framework for Sustainable Natural Resources management and for Operations and Maintenance	1,300,000
7658	EARD	PRC	Effective Reservoir Utilization for Integrated Water Resources Management	300,000
7623	EARD	PRC	Ningxia Dryland Farming and Water conservation Demonstration Project	600,000
7701	EARD	PRC	Anhui Chao Lake Environmental Protection Project	700,000
	EARD	PRC	Shaanxi Weinan Luyang Integrated Saline and Alkaline Land Management Project	600,000

TA No.	Region	DMC	Project Title / Loan (US\$ million)	Amt
7617	EARD	PRC	Capacity Building for ICT-Based Industrial Waste Management	450,000
7640	EARD	PRC	Promoting Energy Conservation in Tianjin	400,000
	EARD	PRC	Developing Smart Grid for Efficient Utilization of Renewable Energy in the PRC	900,000
7730	EARD	PRC	Heilongjiang Energy Efficiency and Urban Environment Improvement Project	550,000
	EARD	PRC	Shanxi Energy Efficiency and Urban Environment Improvement Project	550,000
	EARD	PRC	Renewable Energy Development in Qinghai	700,000
7564	EARD	PRC	Innovative Financing Mechanisms for Energy Efficiency and Emission Reduction in Small and Medium-Size	900,000
7589	EARD	PRC	Study on Beijing Green Finance Development Strategy	500,000
7568	EARD	PRC	Supporting Reforms in Taxation and Budget Management	1,200,000
	EARD	PRC	Hubei Huangxhi Urban Pollution Control and Environmental Management Project	600,000
7620	EARD	PRC	Guangxi Baise Integrated Urban Environment Rehabilitation Project	700,000
	EARD	PRC	Strengthening Capacity to Address Climate Change for Small- and Medium Sized City Development	500,000
7595	EARD	PRC	Jiangxi Fuzhou Urban Integrated Infrastructure Improvement	600,000
7558	CWRD	REG	Central Asia Regional Economic Cooperation: Power Sector Regional Master Plan	2,000,000
7548	CWRD	REG	Improving the Implementation of Environmental Safeguards in Central and West Asia	800,000
7532	CWRD	REG	Water and Adaptation Intervention in Central and West Asia	1,000,000
7635	CWRD	REG	Identifying Solid Waste Management Key Development Challenges and Initial Project Pipeline	225,000
7534	CWRD	REG	Strengthening Carbon Financing for Regional Grassland management in Northeast Asia	1,400,000
	DER/ER D/RSD	REG	Enabling Climate Change Responses in Asia and the Pacific – Strengthening Planning Capacity for Low	1,420,000
	OGC	REG	Building Capacity for Environmental Prosecution, Adjudication , Dispute Resolution, Compliance and En	500,000
	PARD	REG	Strengthening Coastal and Marine Resources Management in the Coral Triangle of the Pacific (Phase II)	15,050,000
7627	RSDD	REG	Enabling Climate Change Responses in Asia and the Pacific-Capacity Development to Address Climate Change	1,000,000
7535		REG	Strengthening the Asia Pacific Adaptation Network	350,000
7566	RSDD	REG	Strengthening and Use of Country Safeguard Systems	5,000,000
7608	RSDD	REG	Enabling Climate Change Responses in Asia and the Pacific-Building Resilience to Disaster and Climate Change	1,250,000
7506	RSDD	REG	Project Preparation Support for the Cities Development Initiative for Asia	2,000,000
7510	RSDD	REG	Needs Assessment and Development of the Solar Energy Program	1,000,000

TA No.	Region	DMC	Project Title / Loan (US\$ million)	Amt
7581	RSDD	REG	Enabling Climate Change Responses in Asia and the Pacific – Supporting Investments in Water and Climate Change	1,000,000
7613	RSDD	REG	Knowledge Platform Development for the Asia Solar Energy Initiative	2,000,000
	SERD	REG	Promoting Renewable Energy, Clean Fuels, and Energy Efficiency in the Greater Mekong Subregion	1,000,000
7575	SERD	REG	Determining the Potential for Carbon Capture and Storage in Southeast Asia	900,000
7599	CWRD	TAJ	Climate Resiliency for Natural Resources Investments	750,000
7615	PSOD	THA	Bangchak Solar Power Project	400,000
7629	SERD	VIE	Capacity Building for River Basin Water Resources Planning	580,000
			TOTAL	73,275,500

**Environment Committee Members
(As of 31 December 2010)**

Chairpersons

Nessim J. Ahmad (RSDD)

Director, Environment and Safeguards concurrently Practice Leader (Environment)

Javed Hussain Mir (SERD)

Director, Agriculture, Environment, and Natural Resources

Members

Mark Kunzer

Senior Environment Specialist (CWRD)

Sergei Popov

Principal Environment Specialist (EARD)

Frank Radstake

Senior Environment Specialist (EARD)

Anthony Maxwell

Energy Specialist (PARD)

Shih-Liang Tu

Senior Safeguards Specialist (PSOD)

Daniele Ponzi

Lead Environment Specialist (RSDD)

David S. McCauley

Lead Climate Change Specialist (RSDD)

Robert J. Dobias

Senior Advisor for Climate Change Program (RSDD)

Norio Saito

Senior Urban Development Specialist (SARD)

Ricardo Carlos V. Barba

Safeguards Specialist (SARD)

Pavit Ramachandran

Environment Specialist (SERD)