



UNITED
NATIONS



Framework Convention
on Climate Change

Distr.
GENERAL

FCCC/SB/2000/INF.8/Add.1
31 May 2000

ENGLISH ONLY

SUBSIDIARY BODY FOR SCIENTIFIC AND TECHNOLOGICAL ADVICE

Twelfth session

Bonn, 12-16 June 2000

SUBSIDIARY BODY FOR IMPLEMENTATION

Twelfth session

Bonn, 12-16 June 2000

CAPACITY-BUILDING

Submissions from Parties included in Annex II to the Convention

Note by the secretariat

Addendum

1. At its fifth session, the Conference of the Parties, by its decision 10/CP.5, requested Annex II Parties to the Convention to submit information which supplements the information contained in their national communications on activities and programmes which facilitate capacity-building in developing countries in the area of climate change, by 1 March 2000 (FCCC/CP/1999/6/Add.1).
2. Further to the submissions contained in document FCCC/SB/2000/INF.8, the secretariat has now received additional information¹ from one Party, which is reproduced as received, in the attached annex.

¹ In order to make this information available on electronic systems, including the World Wide Web, it has been reformatted. The secretariat has made every effort to ensure the correct reproduction of the text as submitted.

Canada's Activities and Programs which facilitate Capacity Building in Developing Countries

| Category 1 MOUs and Other Agreements | | | | |
|---|--|--|------------------|----------------------------------|
| Country/Region | Activity/Program | Description | Dates | GOC Dept.¹ |
| Argentina | MOU on Environmental Cooperation | Agreement between Environment Canada, Industry Canada and the Argentine Secretariat for Natural Resources and the Environment to promote key environmental issues and establish long-term linkages to foster a cleaner global environment. | 1996 - signed | EC / IC |
| Brazil | MOU on Environmental and Sustainable Development Consultations and Cooperation | Agreement between Government of Canada and the Government of Brazil to exchange views on international and regional environmental policy; to cooperate on issues including climate change; and to optimize opportunities to transfer environmental technologies. | 1996- 2001 | EC |
| Chile | MOU on Environmental Cooperation | MOU between Canada (Environment Canada and Industry Canada) with Chile's National Environmental Commission (CONAMA) to promote environmental protection, nature conservation, sustainable development and transfer of environmental technologies. Joint activities were carried out in the areas of: cleaner production; regulations development; mining; environmental impact assessment; emergencies etc. It also provided | 1995 - Jan. 2000 | EC/ IC |

¹Government of Canada Departments responsible for projects include: EC - Environment Canada, CIDA - Canadian International Development Agency, DFAIT - Department of Foreign Affairs and International Trade (including the CDM/JI Office), IC - Industry Canada, NRCan - Natural Resources

| | | | | |
|-------|--|--|----------------------------------|-------|
| | | a forum to exchange views on international issues, including climate change. ` | | |
| Chile | Canada-Chile Agreement on Environmental Cooperation | Agreement between the Governments of Chile and Canada as a side agreement to the Free Trade Agreement between the two countries to promote cooperation, public participation and effective enforcement of environmental legislation. | 1997 - signed | EC |
| China | MOU with the Chinese State Development and Planning Commission | Both parties have agreed in principle to the MOU, which will contribute to a better mutual understanding of policies and programs to promote the sustainable development of energy, in areas such as energy efficiency and energy diversification. The possibility of cooperating in energy technology R&D and promoting scientific exchanges will also be explored. | over the course of the year 2000 | NRCan |
| China | MOU on Environmental Cooperation | MOU between China's State Environmental Protection Agency and Environment Canada to formalize cooperative work in areas supporting the long-term goal of sustainable development. | 1993 Renewed 1998 | EC |
| China | Framework Statement for Cooperation on Environment into the 21 st Century | Between the Government of Canada and the Government of the People's Republic of China to strengthen bilateral cooperation and develop and implement cooperation projects to address climate change including technology transfer and cooperation under the Clean Development Mechanism. | 1998 Nov. | EC |

| | | | | |
|-----------|---|---|--|-------|
| China | MOU on for Cooperation in Meteorological Matters` | Agreement between Environment Canada's Meteorological Service of Canada and the Chinese Meteorological Administration is to further engage China in climate change issues, build institutional capacity, exchange experts, provide training and technology to assist in modernizing China's weather service.` | Signed 1986 renewed for 5 years in 1996` | EC |
| Colombia | MOU on Research and Development Cooperation in Science and Technology | MOU Between Environment Canada (EPS - ETC) and the Colombian Petroleum Institute to undertake a program of cooperation on pollution measurement, prevention and control. Research development and demonstration. | 1997 -2002 | EC |
| Cuba | Letter of Understanding on Environmental Cooperation | Agreement between Canada (Industry Canada and Environment Canada) with MINBAS and CITMA to promote environmental cooperation, sustainable development and transfer of environmental technologies | 1998 - signed | IC/EC |
| Egypt | Letter of Understanding on Environmental Cooperation | Agreement between Canada (Industry Canada) with EEAA to promote environmental cooperation, sustainable development and transfer of environmental technologies | 1999 - signed | IC |
| Hong Kong | MOU on Environmental Cooperation | Agreement between Environment Canada and Hong Kong Planning, Environment and Lands Bureau to maintain and enhance cooperation in the field of environmental affairs | 1998- 2003 | EC |
| India | MOU on Environmental Institutional Strengthening | Agreement between the Governments of Canada and India to build India's capacity to deal with environmental problems and contribute to global solutions. Environment Canada is the Canadian Executive Agency to CIDA administered funds. | Signed 1999 - 2004 | EC |

| | | | | |
|--------|--|---|---------------------|---------------|
| Korea | MOU on Environmental Cooperation | Agreement between Environment Canada and Korean Ministry of Environment to work cooperatively in the areas of clean technologies, EIA, public education and awareness and atmospheric issues. | 1995 | EC |
| Mexico | Memorandum of Understanding (MOU) on Energy Efficiency and Alternative Energy with the Mexican Secretariat of Energy | Contribute to the national efforts of both countries to increase energy efficiency and encourage the alternative use of energy. | Signed in June 1996 | NRCan |
| Mexico | Canada - Mexico Agreement on Environmental Cooperation | This agreement provides a framework for environmental cooperation in various sectors, including the several projects related to climate change. | 1990 - Signed | EC |
| Mexico | Joint Declaration of Intent on Future Collaboration on Climate Change | Agreement between SEMARNAP and Environment Canada to explore activities in the areas of the Kyoto Mechanisms, sinks, climate change science and adaptation and technology transfer. | 1999 | EC |
| Taiwan | MOU on Environmental Cooperation | Agreement between Environment Canada and the Taiwan Environmental Protection Agency to maintain and enhance bilateral cooperation in environmental matters and to promote environmentally sound technologies and contribute to sustainable development. | 1996 | EC |
| Korea | Joint Working Group on Greenhouse Gases | The Joint Working Group seeks to identify GHG reduction opportunities leading to CDM projects Natural Resources Canada co-chairs this group with Korea, Canada's CDM/JI Office also participates | 2000 | NRCan / DFAIT |

| Category 2 Projects which target Climate Change | | | | |
|--|--|---|-------------------|------------------------------|
| Country/Region | Activity/Program | Description | Dates | GOC Dept.² |
| Africa | Regional capacity reinforcement for African Climate Change negotiators | Two roundtables and one workshop on strengthening the capacity of African negotiators in negotiating theory, skills and international law within the context of the UNFCCC | June- Nov., 2000 | DFAIT |
| Argentina | Canada/World Bank Funded Study on the Flexibility Mechanisms | This study facilitates strengthening capacity by evaluating the opportunities provided to Argentina by the Kyoto Mechanisms and the convenience of entering potential emission credit markets, as well as in predetermining an effective institutional structure to address the scientific and technical aspects of climate change. Two workshops were held in Argentina. | 1998 - 1999 | EC |
| Argentina, Chile and Brazil | Climate Change Technology Workshop | Workshops on climate change technology took place in each of the three countries. | Dec. 1999 | IC |
| Caribbean | Capacity Building for Caribbean Participation in the CDM | These three workshops facilitated building capacity by establishing a team of regional experts for identifying CDM projects, evaluating project additionality and eliminating national barriers in CDM projects, with the view of developing strategies for promoting CDM investments in the region and establishing a regional Climate Change Centre | April- Nov., 2000 | DFAIT |
| Chile Argentina | CANSET Program with International Development | The Canada-Southern Cone Environmental Technology Transfer (CANSCT) initiative | | EC |

²Government of Canada Departments responsible for projects include: EC - Environment Canada, CIDA - Canadian International Development Agency, DFAIT - Department of Foreign Affairs and International Trade (including the CDM/JI Office), IC - Industry Canada, NRCan - Natural Resources

| | | | | |
|---------|---|---|----------------------|----|
| Uruguay | Research Council and Industry Canada | transferred Canadian environmental technology and expertise to the Southern Cone countries of Argentina, Chile and Uruguay. Eleven projects were delivered, responding to the needs and priorities in the region. CANSCET was completed in September 1999. One of the CANSCET activities was a climate change regional roundtable, held in March 1999. This forum brought together public and private sector decision-makers and technical experts from Canada, Chile, Argentina, Uruguay and Brazil to discuss technology solutions for climate change issues. | | |
| China | Cooperation Arrangement to Identify Projects for China-Canada Cooperation in the Area of Climate Change | This study under the MOU will identify and elaborate on the most promising projects for China-Canada cooperation in the area of greenhouse gas (GHG) mitigation. Cooperation and capacity building will be focused on projects in areas where the specific and combined strengths of China and Canada can have the greatest beneficial impact. | 1999- 2000 | EC |
| China | Workshop on Climate Change Technologies | This workshop sought to identify potential cooperation activities related to climate change; develop a better understanding of China's capacity building and technology needs; and explore technological solutions. | 1999 - April Beijing | IC |
| China | Climate and Climate Change Impacts Workshop | Activity under MOU on Meteorological Matters to highlight inter-comparisons between a Canada country study and similar studies in China. This workshop was held in Edmonton and involved scientists from a number of agencies in both Canada and China. | 1998 | EC |

| | | | | |
|-------------------|--|---|--------------|------|
| China | Workshop on Global Observing Systems (Beijing) | Environment Canada co-hosted this workshop which included participants from Japan, Korea, Malaysia, Philippines, Hong Kong and Macao. The workshop facilitated capacity building by exploring the application of new technologies, telecommunications networks, data processing and dissemination systems, as well as network strategy. Emphasis was on the Global Climate Observing System (GCOS). | 1998 | EC |
| China | China Meteorological Administration (CMA) Delegation Visit (Vancouver, Toronto, Montreal and Ottawa) | Under the MOU with CMA a delegation of 25 CMA experts visited four Canadian cities. Capacity building was supported through the sharing of information. The emphases during the visit were on modernization strategies, disaster mitigation, remote sensing technologies, climate change impacts, science and underlying modeling activity. | 1999 - April | EC |
| El Salvador | Canadian Environmental Network - International Capacity Building Project | This project seeks to build capacity by exploring the issue of global Climate Change and strengthening partnerships, networking as well as holding a workshop on joint implementation and the Kyoto Protocol | 1998-1999 | CIDA |
| El Salvador | Frostbite & Sunburns 1999 | Frostbite and Sunburns - Canadian initiatives in the context of global climate change - Conference | 1999 | CIDA |
| Ecuador / Granada | Global Links to Climate Change | This project seeks to build capacity to reduce global warming and improve quality of life and the environment by changing behaviour and effecting policies. | 1998-present | CIDA |
| Ghana | Global Partnership Protect Ozone: Friends of the Earth | This project seeks to strengthen the participation of Civil Society on the Protection of Ozone Layer, which includes reduction of chemical emissions that contribute to climate change | 1998-present | CIDA |

| | | | | |
|-----------------------------|--------------------------------------|---|------------|----------------|
| Honduras | Environmental Technologies Workshop | The workshop provided Honduran and Canadian participants from both government and the private sector with an opportunity to review and learn about environmental technologies including climate change technologies. | 1999 | IC |
| Honduras | Natural Resource Management | This project provides capacity building for sustainable management of natural resources policy including forests, agricultural land, water, and marine/coastal areas. Sub-components of the project are: helping Honduras set up an organization for the Clean Development Mechanism and a Cleaner Production Centre as well as a study on energy-efficiency opportunities in Honduras. | 1998- 2002 | CIDA/ DFAIT |
| India | Canada Energy Efficiency Project | This project builds Indian capacity to promote environmentally sound development through public and corporate policy-making and cooperation in the fields of energy efficiency and GHG emissions | 1997- 2001 | CIDA |
| India | India-Canada Environment Facility | This umbrella project seeks to enhance Indian capacity to implement sustainable development activities in the water and energy sector. There are over 15 projects currently underway, a number of which have a climate change component (e.g., tree plantations, coastal wetlands, wind energy, etc.) | 1991- 2004 | CIDA |
| Latin America and Caribbean | The HEI Climate Change Working Group | The aim is to facilitate discussion, exchange of information and potential cooperation among countries of the Americas on climate change and the implications and opportunities for our energy sectors, including energy technologies.` | | NRCan |

| | | | | |
|--------------------|--|---|-----------------------------------|-------|
| Mexico | Study on Climate Change | Study under MOU to provide assistance to develop a monitoring program for potential Clean Development Mechanism projects in Mexico and reduce the risks to investors. In partnership with Woodrising Consultants, Environment Canada, Natural Resources Canada SEMARNAP and INE of Mexico. | 1998 | EC |
| Mexico | Canada-Mexico Workshop on Climate Change | Activity under the Joint Declaration of Intent to exchange information on how each country is addressing the threat of climate change through its initiatives, activities and new institutions. Also serve to identify potential and existing technological solutions to mitigate climate change and explore areas of joint collaboration between Canada and Mexico - including the identification of potential project opportunities that could be undertaken under the Clean Development Mechanism. | Feb. 17 & 18, 2000 Mexico City | EC |
| Mexico, US, Canada | Regional Cooperation Toward Improve Understanding and Eventual Implementation of the CDM | The purpose of this trilateral project under the Commission on Environmental Cooperation (CEC) is to develop North American opportunities for cooperation in reducing GHG, through project-based emissions credit activities such as CDM and JI. | 1999 | EC |
| Multinational | Cities for Climate Protection and Agenda 21 linkages | This program supports local capacity for environmental management and sustainable development for climate protection and Agenda 21 | 1999-present | CIDA |
| Senegal | National Climate Change Consultation Process` ` | A workshop to support the national stakeholder consultative process in view of producing the second national communication.` ` | Sept. 1999 | DFAIT |
| Senegal | African UNFCCC Workshops | African Workshop to enhance the capacity of African to negotiate issues to the Kyoto Protocol | 1998-1999 | CIDA |

| | | | | |
|----------------------------|---|--|------------|------|
| Southeast Asia Regional | Tree Link | This project develops and implements forest renewal, conservation and protection policies and practices to address the disastrous 1997 forest fire season, recent flooding and increased international pressure through the Kyoto Protocol to address climate change. This project helps to build the capacity of the region to manage their forest resources. | 1998- 2003 | CIDA |
| Taiwan | Economic Impact Assessment - Reduction of Greenhouse Gases | Activity under MOU to evaluate the contributions of GHG emissions for the energy, transport, and industry sector and provide a model for evaluation of the economic impact from the energy, transport and industry sectors. | 1998 | EC |
| Caribbean Region | Caribbean Planning for Adaptation to Climate Change (CPACC) | Environment Canada is providing assistance, on an informal basis, to Caribbean countries in the areas of Regional Climate Modeling and a Master's-level university program on climate change. This project will help the Caribbean region build its capacity to adapt to the adverse effects of climate change. | 1996- 2000 | EC |

| Category 3 Projects with an impact on Climate Change | | | | |
|---|------------------------------|---|--------------|------------------------------|
| Country/Region | Activity/Program | Description | Dates | GOC Dept.³ |
| Argentina | CIUDAD 21 Urban Agro-Ecology | This project seeks to build capacity for improvement in urban and water quality through waste recycling and other initiatives. Through the reduction of waste, GHG emissions from landfills is reduced. | 1998-present | CIDA |

³Government of Canada Departments responsible for projects include: EC - Environment Canada, CIDA - Canadian International Development Agency, DFAIT - Department of Foreign Affairs and International Trade (including the CDM/JI Office), IC - Industry Canada, NRCan - Natural Resources

| | | | | |
|------------|--|---|---------------|------|
| Bangladesh | Environmental Management Program | This project aims to strengthen the institutional capacity of the Department of Environment including carrying out environmental management demonstration areas and other environmental initiative which can help reduce GHG emissions (including a small demonstration project targeting the conversion of rickshaws to natural gas) | 1998- 2003 | CIDA |
| Bolivia | Oil and Gas Project Phase II | This project has assisted Bolivia in building the capacity to develop environmental regulations and guidelines and contributed to increases in gas reserves which will help reduce CO2 emissions in Bolivia and Brazil. | 1998- 2002 | CIDA |
| Bolivia | Training and agricultural production | This project seeks to build the capacity of Bolivia to make sustainable improvements in agricultural productivity and - biological agriculture and soil conservation. This could increase carbon sequestration in soils. | 1998- present | CIDA |
| Brazil | Electrical Energy Efficiency Project (Technology Transfer Fund@ sub-project) | Through this project the Brazilian National Energy Efficiency Program `` (PROCEL) can build its capacity by drawing on successful Canadian models of demand-side management to change consumer patterns of electricity consumption and improve efficiencies. | 1997- 2000 | CIDA |
| Cameroon | Sustainable Management of Obang Forest - Forest Protection and Agroforestry to protect water quality | The purpose of this project is to protect the water catchment that supplies water to the villages. This requires protecting intact areas of forest as well as reforesting some areas. This contributes to both protection of carbon sinks as well as support to reduce vulnerability to climate change. | 1999- present | CIDA |

| | | | | |
|-----------------------------|---|---|------------------|------|
| Central America Regional | Regional Electrical Energy Project | This project supports the reform of the electrical sub-sector and enhanced regional collaboration in the exchange of electricity, and is increasing efficiencies, reducing losses, introducing demand side management, helping develop strategies for increased use of hydro electric resources and providing support for an initiative to determine the feasibility of importing natural gas into the region. The project builds the capacity of the region to effectively manage its energy resources. The outcome of these initiatives will be to reduce the level of CO2 emissions. | 1998- 2002 | CIDA |
| Chile | Waste Management Project | This project seeks to help Chile build its capacity to pursue and promote activities in the three R's (Reduce, Reuse and Recycle) within community projects. | 1998- present | CIDA |
| China | MAP (Microwave Assisted Process) Center of Excellence | This activity under the Canada-China MOU aims to build capacity and transfer Canadian MAP technology and expertise through training and joint research, including the establishment of a MAP pilot plant in Beijing. The MAP technology reduces greenhouse gas emissions by consuming less energy while generating less wastes. | 1996- 2002 | EC |
| China | SEPA-led delegation on Cleaner Production | This visit by Chinese official under the Canada-China MOU will help build capacity through learning about cleaner production technologies and know-how as well as the Canadian policy and regulatory framework for Cleaner Production | 1998 | EC |

| | | | | |
|-------|---|---|------------|------|
| China | Environmental Predictions | This activity focuses on predictions on time scales ranging from days to decades with some application to air quality and the urban environment. The development of coupled models for flood forecasting and the investigation of extreme events in the urban environment are foci. Work on seasonal forecasts is also included. This contributes to increasing China's ability to adapt to climate change. | 1997- 2001 | EC |
| China | Modeling the Transition of Hurricanes and Typhoons in Mid-latitudes | Project under MOU with CMA was to host a CMA expert for one year to participate in a collaborative modeling study. | 1999 | EC |
| China | Cooperation in Cleaner Production | In this project, emphasis is placed on pollution prevention, conservation of raw materials and energy, eliminating toxic raw materials, etc. by strengthening institutional capacity to implement cleaner production. | 1996- 2001 | CIDA |
| China | Canada-China Jiangsu Small and Medium-sized Enterprises Applied Management and Environment` ` | This projects seeks to provide assistance in management and environmental/business capacity for Small and Medium-sized enterprises through increasing awareness and demonstration projects around waste minimization, cleaner production, etc.` ` | 1998- 2003 | CIDA |
| China | Kunming Horticulture Exposition - Trees for Life Canada | This project provides support for reforestation and enhanced awareness of the importance of trees in order to contribute to environmentally sustainable development in China. This, therefore, contributes to protection of carbon sinks. | 1998- 1999 | CIDA |
| China | Energy Efficiency in Buildings | This project aims to build the capacity of China's Ministry of Construction to develop energy efficiency standards for buildings, based on Canadian technology, thereby reducing GHG emissions. | 1996- 2001 | CIDA |

| | | | | |
|----------|--|---|---------------------------------|------|
| China | Hebei Dryland Project | This project develops and transfers ecologically sound dryland management technology and improves water efficiency, balanced fertilization practices (reduces N ₂ O), etc. | 1996- 2001 | CIDA |
| China | Nutrient Management and Strategies for Sustainable Development in China | This project aims to promote environmentally sustainable development by enhancing the capacity of farmers, decision-makers and policy-makers in China to promote the balanced use of fertilizers and improved soil management. | 1999- 2004 | CIDA |
| China | Oil and Gas Technology Transfer | This project assists in the development of optimal recovery of China's oil and gas resources by upgrading capacity. | 1994- 2001 | CIDA |
| China | Strategic Energy Planning for Southern China | This project transfers appropriate processes and techniques to build capacity in China for developing a comprehensive strategy to provide power and coal for Southern China within an economically, environmentally and socially sustainable energy management framework.` ` | 1995- 1999 Possible phase II | CIDA |
| Colombia | Specialized exhaust emissions sampling system of petroleum research programs | The objective of the four month project under the Canada-Columbia MOU is to design a constant volume sampling system based on constant flow venturiis with the capacity of testing engines of 1 to 6 displacement. The information generated can build capacity for establishing a baseline greenhouse gas inventory. | 1999- 2000 | EC |
| Colombia | Energy, Mining, and Environment | This project involves strengthening of two ministries, Environment and Mines and Energy, including energy efficiency and conservation as well as expanded use of natural gas. These actions will reduce CO ₂ emissions. | 1997- 2003 | CIDA |

| | | | | |
|--------------------|---|---|-----------------|------|
| Costa Rica | Productive Sector Modernization | This project seeks to build capacity for more efficient production in small and medium sized industries with resulting lower GHG emissions. | 1998- 2003 | CIDA |
| Costa Rica | Development of Laws and Policies to Help in Meeting Agenda 21 Commitments | Two Canadian and Costarican organizations will jointly develop laws and policies to help them meet their Agenda 21 commitments in the areas of a) consumption, pollution and waste, and b) biodiversity conservation. | 1998-present | CIDA |
| Costa Rica | Energy Efficiency Project | This project builds capacity in the installation and management of a digital simulator of electric networks contributing to increase energy efficiency | 1998-1999 | CIDA |
| Cuba | Havanas Women Bicycle Project | This project seeks to increase capacity by building knowledge through a study of how to increase the access to bicycles as well as skills and technologies related to human-powered transport | 1998-present | CIDA |
| Cuba | Cuba-Canada Environment ` Restoration Project | This project seeks to build capacity through support to a ` ction-oriented environmental education and restoration. It will also contribute to the environmental regeneration of a denuded area of the Almendares River through the establishment of a permanent nursery, thereby enhancing carbon sinks. | 1998-present` ` | CIDA |
| Cuba | Solar Power Project | This project seeks to provide electricity to 60 medical clinics through solar power. | 1998-present | CIDA |
| Cuba | Bicycle and Wheelchair Mechanic Training Pilot: Trade Union Group | This project seeks to provide safe, reliable and environmentally sound transportation for citizens and small industry as well as training and capacity building in their use and maintenance. | 1999-present | CIDA |
| Dominican Republic | Integrated Management of the Ocoa River | This project supports reforestation, soil conservation, farm management, as well as environment studies and education programs to enhance local capacity. It could contribute to increased carbon sequestration. | 1999-present | CIDA |

| | | | | |
|--------------------|---|---|--------------|------|
| Dominican Republic | Organic Agricultural Project: | This project strengthens capacity for sound management of natural and renewable resources through the use of organic agricultural production and methods. The result will be increased sequestration of GHGs. | 1998-present | CIDA |
| Ghana | Janga Project: Ghana Rural Integrated Development | This project includes the promotion of and capacity building for organic farming and tree nursery training, thereby contributing to enhancement of carbon sinks. | 1998-present | CIDA |
| Guatemala | Community Pedal Power | To provide pedal powered mills and pumps to indigenous Guatemalan rural communities, thereby increasing capacity to utilize GHG emissions-free power sources. | 1999-present | CIDA |
| Haiti | Create a Model Electrical Utility at Jacmel (part of Technical Assistance to EDH - Phase II) | The project is creating the first electrical utility which will operate with low losses in Haiti. This is being achieved mainly through capacity development of the electrical utilities staff and will reduce CO2 emissions. | 1999- 2001 | CIDA |
| Honduras | Broadleaf Forest Development | Forest management practices are being introduced to reduce deforestation, improve knowledge about protection and harvesting of forests, and to manage land use. The result is protection of carbon sinks. | 1996- 2001 | CIDA |
| India | Environmental Management Systems/Greening of Government initiative | This project is part of a 5-year MOU with the central government in India. It seeks to build capacity by undertaking activities such as energy retrofits that will improve environmental performance and conserve energy. | 2001- 2002 | EC |
| India | Compressed Natural Gas 3-Wheeler conversions | This project, under the Canada-India MOU, to transfer Canadian technology which provides capacity to retrofit 2-cycle 3-wheel auto-rickshaws to a cleaner operating system. | 2000- 2001 | EC |

| | | | | |
|-------|--|---|------------|-------|
| India | The International Centre for the Sustainable Development of the Cement and Concrete Industries | This project aims to assist India promote the use flyash as a supplementary cementing material for concrete production. Replacing cement with flyash reduces the GHG emissions associated with cement production. | | NRCan |
| India | Boiler Emission Upgrade | This project aims to increase the capacity of Indian stakeholders through increased awareness of, and means to introduce viable technology to revamp old and failing power plants using circulating fluidized bed technology | 1998- 2004 | CIDA |
| India | Kerala State Electricity Board Systems Enhancement: `` IDUKKI Dam Project | This project aims to increase the availability of electricity in Kerala State in part through reduction of energy losses in the transmission and distribution system``. It will also build capacity for operating efficiency related to water and energy-use management among other things. | 1988- 2000 | CIDA |
| India | MOEF Institutional Strengthening | This project will strengthen the capacity of the MOEF to address a broad range of environmental issues one of which is converting three wheelers to natural gas, thereby reducing greenhouse gas emissions | 2000- 2005 | CIDA |
| India | Canada-India Rural Energy Project | This project aims to increase the utilization of alternative energy technologies among poor households in India. It will also strengthen the capacity of a network of NGOs to deliver energy-related activities. | 1998- 2003 | CIDA |
| India | Chamera Hydroelectric Project | This project seeks to upgrade the capacities of the National Hydroelectric Power Corporation and design and construct a 540 mW hydroelectric dam | 1983- 2000 | CIDA |
| India | Alternate Fuels Project | This project supports the conversion of vehicles to run on cleaner fuel. | 1998- 2000 | CIDA |

| | | | | |
|--------------------------|--|--|---------------|------|
| Indonesia | North Sulawesi Water Resources Institutional Development Project | This project aims to improve the management, design, construction, monitoring, flood control, etc. for the water sector. This will contribute to increased capacity to adapt to climate change | 1989- 2000 | CIDA |
| Jamaica | Green Fund Extension | This project strengthens capacity through support to community-based initiative which will contribute to the sound management and conservation of Jamaica's Natural Resources and to improve advocacy and development through more effective networking. Sub-projects have dealt with alternate sources of energy and improved agriculture and agroforestry practices. | 1998 - 2004 | CIDA |
| Latin America/ Caribbean | ESMAP Refinery Project | This project is assessing the impact of applying new and cleaner fuel specifications on the refining industry in the LAC region. The long term benefits of this project include increased capacity in the refinery industry and improved air quality and reduced emissions. | 1999- 2000 | CIDA |
| Mali | Support to Electricity Sector in Bamako | This project supports and builds capacity for strategic planning activities directed towards improving operation (efficiency) and maintenance of high voltage transmission systems. | 1999 - 2004 | CIDA |
| Mali | Environmental rehabilitation and food security | This project builds capacity in decentralized institutions to deal with natural resource management and supports specific environmental interventions as they relate to both adaptation to desertification due to climatic changes and to improved food production. | 1990 - 1998 | CIDA |
| Mexico | Women's Community Centres: Change for Children | Through training of women's groups in recycling and waste management as well as program management, this project will reduce GHG. | 1998- present | CIDA |

| | | | | |
|-------------------------------|---|--|--------------|------|
| Multinational Southern Africa | Zambezi Wetlands Conservation | The primary objective of this project is conservation and sustainable use of the wetlands. This will be accomplished through information dissemination to decision makers which will help build their capacity to manage these wetlands. A by-product of such action is the preservation of a carbon sink. | 1991 - 1999 | CIDA |
| Multinational Africa | Waste-Econ Program | This project facilitates capacity building in waste reduction, recycling and improving employment conditions through pilot programs and educational initiativesK. | 1999-present | CIDA |
| Pakistan | Institutional Linkage between Emissions Research & Measurement Division and Balochistan Environmental Protection Agency | This project is aimed at capacity building of BEPA in vehicular emissions monitoring, evaluation & control including a demonstration project to convert two-stroke auto-rickshaws to operate on Compressed Natural Gas. CIDA is also providing grant to Pakistan to set up a CNG refueling station in Balochistan. | 1999- 2001 | EC |
| Pakistan | A demonstration project to convert two-stroke auto-rickshaws to CNG | This is a demonstration project funded by the Canadian Technology Early Actions Measures to convert two-stroke auto-rickshaws to operate on Compressed Natural Gas in Karachi and Lahore involving collaboration between Yugo-tech Gas Conversion System Inc., ERMD and provincial EPAs of Sindh & Punjab. | 1999- 2001 | EC |
| Pakistan | WARSEK Rehabilitation Project | This project will assist the Water and Power Development Authority to rehabilitate a hydroelectric. | 1994- 2000 | CIDA |
| Peru | Petroleum Regulatory Assistance | This project focuses on strengthening the regulation and monitoring of the hydrocarbon sector. With a better regulatory system for the natural gas sector, the use of this resource will replace current fuels resulting in lower emissions. | 1998- 2003 | CIDA |

| | | | | |
|-------------------------------|--|--|-------------|------|
| Senegal (OMVS) | Impact assessment and studies of electrical distribution network | The studies will help build capacity by determining the best design for high voltage transmission lines which will improve the efficiency of the distribution network, thereby reducing GHG emissions. | 1995 - 2000 | CIDA |
| South America ` ` Regional | Environment Project with the regional petroleum companies <(ARPEL) | This project promotes and advances, through capacity building, ` ` standardized approaches to environmental protection in the region. Two components deal with energy efficiency and reducing emissions from vehicles and industries. | 1995- 2000 | CIDA |
| India | Energy Infrastructure Services Project | This project will strengthen the capacity of the Indian Government and Central Electricity Research Commission in the process of organizational restructuring and policy reforms required to improve the efficiency and environmental management in the energy sector in two states. | 1997- 2002 | CIDA |
| South America Regional | Energy and Environment Project, Latin American Energy Organization (OLADE) | This project is developing capacity within the region to strengthen environmental and regulatory frameworks to allow for sound development and sustainable use of fossil fuel resources. | 1996- 2002 | CIDA |
| Kazakhstan | Transmission Rehabilitation Project | This project facilitates the procurement of goods and services for an electrical substation upgrade in Kazakhstan, which is part of US \$140 million World Bank loan for electricity transmission rehabilitation. The project will increase efficiency in electricity generation in Kazakhstan | 1999 - 2000 | CIDA |

| | | | | |
|--------------|---|---|-------------|------|
| Turkmenistan | Refinery Project | This project will assist officials at Turkmenbasi Refinery to secure financing for an upgrade of the refinery through the use of Western-style business practices. The upgrade will increase the efficiency of the plant thereby reducing emissions. The project will include the development of organizational capacity and training of both technical and financial specialists. | 1997 - 2001 | CIDA |
| Kazakhstan | Pipeline Systems Training | The Pipeline Systems Training project aims to strengthen the capacity of the Kazakhstani human resource to meet the growing needs in the oil and gas sector and to increase productivity and efficiency, thus reducing GHG emissions. | 1998- 2000 | CIDA |
| Kazakhstan | Higher Education Technical Assistance Project | This project aims at developing the capacity of two Kazak educational institutions to deliver demand driven technical/vocational education and training programs to industry, focusing on the oil and gas sector and increasing the efficiency of the sector, thereby decreasing GHG emissions. | 1997 - 2001 | CIDA |
| Kazakhstan | National Drilling Core Repository & Research Facility | This project aims to lay the regulatory and financial groundwork for the construction and maintenance of a National Core Repository Centre complete with state of the art laboratories for the analysis of core, drill cutting samples and fluids and the monitoring of environmental conditions surrounding petroleum fields. This will increase the efficiency of exploration and reduce the total energy required. | 1998 - 2001 | CIDA |
| Kazakhstan | Training Partnership | The Canada-Kazakhstan Training partnership will aim to strengthen the technical skills of workers in the petroleum sector in order to increase oil field productivity and efficiency. | 1998 - 2002 | CIDA |

| Category 4 Projects related to Capacity Building for Climate Change | | | | |
|--|--|--|---------------|------------------------------|
| Country/Region | Activity/Program | Description | Dates | GOC Dept.⁴ |
| Cambodia, Laos, Vietnam | Canada/Thailand Trilateral Environmental Project | This project seeks to build capacity, in part through the provision of technical assistance, in Cambodia, Lao PDR and Vietnam on environmental aspects of energy development | 1995- 1999 | CIDA |
| Cameroon | Sustainable forest management | This project contributes to the sustainable management of forests which are carbon sinks | 1994- 2000 | CIDA |
| Chile | Chiloé Model Forest (Technology Transfer Fund sub-project) | The International Model Forest Network Secretariat, housed at Canada's International Development Research Centre, is working with the Chilean Ministry of Agriculture to enhance its capacity to introduce Canada's "model forest" approach in Chiloé. | 1998- 2000 | CIDA |
| Ecuador | Exchange Program | The goal of the project is to enhance environmental organizations' capacity to demonstrate that conservation initiatives can provide viable rural community development, i.e., protection of the Mindo-Nambillo forest can be promoted through ecotourism. This will result in protection of carbon sinks. | 1999- present | CIDA |
| Fiji | Wainimate Institutional & Program Development for Women | This project will increase women's ability to preserve traditional medicine through forest and environmental conservation. This will also result in protected carbon sinks.` ` | 1998- present | CIDA |

⁴Government of Canada Departments responsible for projects include: EC - Environment Canada, CIDA - Canadian International Development Agency, DFAIT - Department of Foreign Affairs and International Trade (including the CDM/JI Office), IC - Industry Canada, NRCan - Natural Resources

| | | | | |
|----------------------------|---|---|--------------|------|
| Guinea | Energy Sector Program Planning | Development of energy sector programming and training through the development assistance program | 1999- 2002 | CIDA |
| Multinational South Africa | Forestry Sector Technical Co-ordination Unit Phase II | This project provides institutional support to the FSTCU in Malawi which has responsibility for forestry issues in SADC. Improved practices will protect carbon sinks. | 1991 - 1999 | CIDA |
| Multinational | Energy management training project | This project provided 3,000 person-days of training for interns in energy management | 1998-present | CIDA |
| South America | Globesar II (RADARSAT) | This project is assisting in resource management by tracking deforestation and reduction of wetlands, resulting in protection of these important carbon sinks. This knowledge will contribute to increased capacity of South American decision-makers in resource management. | 1997- 2001 | CIDA |
| Thailand | Urban Greening in Thailand | This technical assistance program seeks to facilitate the strengthening of Thai capacity to undertake urban greening demonstration project in Bangkok, Thailand. Urban greening should result in an increase of carbon sequestration. | 1999-present | CIDA |
| Argentina | Fire Management Technology (Technology Transfer Fund sub-project) | The BC Forest Service (BC Ministry of Forests) is working with the Argentinean National Fire Management Organization to develop a national infrastructure that will prevent and manage forest fires in Argentina. | 1999- 2001 | CIDA |
| Cameroon | Support to environmental NGOs | This project supports the capacity development related to environmental issues | 1995 - 2001 | CIDA |

| | | | | |
|-----------------|--|--|---------------|------|
| Central America | Alliance for Sustainable Development` ` | This projects aims to increase collaboration among the private sector, civil society, and the public sector in areas related to environmentally sustainable development. ›By adopting this multi-stakeholder capacity building approach, this project is likely to result in protection of carbon sinks and reduction in output of greenhouse gases. | ended 1999` ` | CIDA |
| China | Comprehensive Transport Management Training | This project aims to strengthen China's managerial, planning and operational practices in the transportation sector, thereby contributing to increased capacity to reduce GHG emissions from the transportation sector. | 1993- 2001 | CIDA |
| Costa Rica | Economic Development for Economic Conservation | This project supports capacity building for ecological conservation through organic agriculture and appropriate ecotourism initiatives. It can therefore contribute to reduced GHG concentrations in the atmosphere. | 1999-present | CIDA |
| Egypt | Electricity Sector Reform | This project aims to support reform of the energy sector in Egypt and encourage greater efficiency, through capacity building of local authorities, thereby reducing wasted emissions. | 1994 - 2000 | CIDA |
| Ethiopia | Bette Valley Integrated Community Development Project | This project aims to build capacity and linkages between various ministry offices in the area as well as educate local community members. It includes a component focused on forests, thereby contributing to conservation of carbon sinks. | 1998-present | CIDA |
| Haiti | Society for Reforestation in Haiti - Cooperation Project | This projects studies the protection of water resources, reforestation, waste management and education with respect to the environment. With this increased knowledge, Haitian capacities will be increased.` ` | 1998 | CIDA |

| | | | | |
|-----------|--|---|---------------------------------------|------|
| Honduras | Water and Sanitation (watershed protection) | This project includes capacity building for the sustainable management of forests to protect the watershed resulting in protection of carbon sinks and increased ability to adapt to climatic and precipitation pattern changes. | ended 1999 | CIDA |
| India | Tree Growers Cooperative | This project seeks to create a truly sustainable model for village-based community forestry through local capacity building. It will contribute to the protection and enhancement of valuable carbon sinks. | 1991- 2003 | CIDA |
| India | Environmental Management Programme | This project is designed to improve the capacity of the Confederation of Indian Industry's Environmental Management Division to participate, raise awareness and promote cooperation in the development of environmental policies for industry. | 1995- 2001 | CIDA |
| Indonesia | Collaborative Environmental Protection Project | This project will build capacity in strengthening environmental policies and regulations, provide support to universities, develop and demonstrate small projects for dealing with a variety of environmental issues. | 1995- 2002 | CIDA |
| Indonesia | Promoting Sustainable Forests | This project seeks to build capacity for the establishment of an approach and methodology for community-based forest management which will result in a more sustainable management of carbon sinks. | 1999-present | CIDA |
| Mexico | Environmental Management Systems (EMS) Workshops | This project was pursued in cooperation with UNEP to assist Mexico in organizing an international workshop on EMS and Greening of Government. Two workshops were organized in Mexico. | 1998 - Mexico City 1999 - Guanajua | EC |

| | | | | |
|---------------|--|---|--------------|------|
| Mexico | Participation in Technical and Scientific Conferences | This activity under the Mexico-Canada MOU encourages experts to attend and speak at major environmental conferences in Canada and Mexico; to facilitate exchange of information and technology, thereby increasing capacity. | 1998 | EC |
| Multinational | Environmental programming | This program seeks to build capacity to strengthen world-wide action towards a sustainable environment - biodiversity, plants and forests, energy, etc. | 1998-present | CIDA |
| Multinational | PACEM in Maribus XXVI | This Conference on Knowledge Development and Management contributed to increased capacity through information sharing and creation for ocean space and resource users. | 1998 | CIDA |
| Multinational | New approaches to good oceans governance and coastal management practices | This program provides new orientations and techniques for the development of policies on good governance of oceans and best practices of coastal zone management. This will contribute to an increased capacity to adapt to sea level rise. | 1998-1999 | CIDA |
| Nepal | WECS Institutional Development | This project seeks to increase the capacity for environmentally sound water and energy management. | 1996- 2002 | CIDA |
| Nepal | Collaborative Local Initiatives for Environment (CLIFE) | This project aims to increase the capacity for community environmental management in Nepal, with a focus on water and energy management. | 1997-2001 | CIDA |
| Nicaragua | Community Health and Environmental Education: Centre for International Solidarity Alma | This project supports capacity building of 16 communities to improve the quality of the environment through improved environmental management. It may contribute, also, to reducing vulnerabilities to climate change. `` | 1998-present | CIDA |

| | | | | |
|-------------------------|---|---|--------------|------|
| Pakistan | Institutional Linkage between Environmental Technology Advancement Directorate & the Pakistan Environmental Protection Agency | Funded by CIDA, ETAD is assisting PEPA in building capacity for Environmental Laboratory Accreditation, Environmental Technology Verification, Containment of Oil Spills, Hazardous Products Handling and Clean Air Program. | 1999- 2001 | EC |
| Pakistan | Strategic Technical Assistance and Responsive Transfer Fund | This project will support the four programming priorities in Pakistan including energy, social sector, environment and private sector development. | 1996- 2003 | CIDA |
| Pakistan | Oil and Gas Programme | This program will strengthen the capacities of government and private sector institutions to manage the oil and gas resources in a more sustainable manner. | 1996- 2001 | CIDA |
| Papua New-Guinea | Environmental Awareness, Education & Training | This project will provide training for the sustainable management of forest resources and biodiversity. | 1999-present | CIDA |
| Philippines | Alternative Environmental Law and Community Empowerment Project | This project builds capacity for legal services and training in relation with biodiversity conservation, coastal resource management and the environment. It can contribute to reduced vulnerability of coastal areas to adverse effects of climate change. | 1999-present | CIDA |
| Southeast Asia Regional | Urban Environmental Management Project | This project will establish effective and sustainable urban environmental management educational programs and business services at AIT and provide opportunities for Canadian environmental companies to demonstrate technologies and services. | 1996- 2001 | CIDA |
| Southeast Asia Regional | Asia Regional Fire Danger Ratings System | This project will increase capacity and develop long-term solutions for responding to and monitoring forest fires in the ASEAN region | 1999- 2001 | CIDA |

| | | | | |
|------------|--|--|-------------|------|
| Tunisia | Setting Targets for Biodiversity Conservation | Canada provided support to a Biodiversity Conservation Workshop in Tunisia, which sought to build capacity by engaging stakeholders and exploring targets related to sustainable use of resources, etc. | 1998 | CIDA |
| Vietnam | Vietnam-Canada Economic and Environmental Management Project | This project aims to strengthen policy analysis capabilities of selected institutions, researchers, analysts in the areas of economic reform and environmental management including natural resource management. | 1997- 2000 | CIDA |
| Zimbabwe | Ministry of Environment Institutional Strengthening | This project seeks to strengthen the capacity of the Ministry of Environment; in so doing, it may address issues related to energy efficiency and provide assistance to professionals in the environmental sector. | 1991 - 1998 | CIDA |
| Kyrgyzstan | Institutional, Technological & Human Resources Development | The purpose of this project is to create a professional development program that will lead to an awareness among Kyrgyzstan policy makers and mining educators of the mining and resource management techniques that are used by international companies. The strategic transfer of Canadian mining technology and knowledge will lead to improved capacity of the partner institutions to offer high quality educational programs and to their ability to reduce GHG emissions. | 1999 - 2002 | CIDA |

| Category 5 Multilateral Projects with Canadian Participation or Support | | | | |
|--|--|---|---------------|------------------------------|
| Country/Region | Activity/Program | Description | Dates | GOC Dept.⁵ |
| Asia Pacific region (including China and Russia) | APEC Energy Working Group (EWG) | Many of its activities relate to enhancing understanding of policy issues and building the capacity of developing economies to implement energy policies consistent with sustainable development. Expert groups under the EWG deal with energy efficiency and conservation, “clean” use of fossil fuels, new and renewable energy technology, and energy data and outlook (including CO2 inventories and indicators). | | NRCan |
| Asia/Africa/Pacific | Pacific Institute initiative for North-South Partnership on Climate Change | Three workshops (Brazil, South Africa, South East Asia) on the practical implications of the CDM, with the objectives of identifying the defining characteristics of CDM projects, securing their financing and incorporating capacity building in them. | Jan.-May 2000 | DFAIT |
| Multinational | International Energy Agency (IEA) | Through its policy research and analysis (including its work on indicators), the IEA stimulates discussion and understanding among its members of various energy-related climate change policy options and their impacts. This analytical work also feeds into the UNFCCC process and contributes to informed discussions on energy-related climate change issues internationally. ⁵ | | NRCan |

⁵Government of Canada Departments responsible for projects include: EC - Environment Canada, CIDA - Canadian International Development Agency, DFAIT - Department of Foreign Affairs and International Trade (including the CDM/JI Office), IC - Industry Canada, NRCan - Natural Resources

| | | | | |
|---|--|---|------------|-------|
| Asia-Pacific | Asia-Pacific Economic Cooperation | Canada participates in the APEC EWG Pledge and Review Initiative and Energy Standards Subgroup. The latter seeks to create a better understanding among APEC economies of testing procedures of the performance of energy consuming products, and assist those wishing to introduce labeling or minimum performance standards. Canada also participates in the APEC EWG Experts' Group on Clean Fossil Energy supports emissions reductions projects related to production and utilization of fossil fuels. | | |
| Asia Pacific, Eastern Europe, Latin America | International Energy Agency Non-Member Country Activities | The International Energy Agency is expanding cooperation with other multilateral groups such as APEC, and with some of the larger developing or transitional countries (e.g., China, Russia), with a view towards promoting policies, programs and technologies consistent with the sustainable development of energy. Furthermore, the IEA is sharing its considerable modeling and policy analytical expertise with other international fora, such as the APEC Energy Working Group. | | NRCan |
| China | China Council for International Cooperation on Environment and Development | The Council assists China to develop integrated coherent policies and capacity that recognize critical linkages between environmental sustainability and economic and social development. | 1997- 2002 | CIDA |

| | | | | |
|-----------------------------|--|---|--|-------|
| Latin America and Caribbean | Hemispheric Energy Initiative (HEI) | Many of its activities relate to building the capacity of developing economies to implement energy policies consistent with sustainable development. NRCan leads the energy standards work in the ` HEI within the Energy Efficiency Working Group. We have also been involved in the area of buildings and equipment energy efficiency, with a view towards promoting information exchange and identifying areas of future cooperation. | | NRCan |
| Turkey | Multilateral RD&D collaborations under the auspices OECD-International Energy Agency Implementing Agreement on Energy Conservation Through Energy Storage (ECES IA). | Several Annexes (Research Teams) with work sharing responsibilities, seek large improvements in energy efficiency through energy storage techniques and mechanisms to further up-take of renewable energies. This project seeks to build capacity through information exchanges, including regular workshops/ meetings, seminars, conferences, electronic discussion group and web page and demonstration and commercialization of findings. Participants from various countries include government agencies, private firms, research institutes and universities | | EC |

- - - - -