



FCCC/WEB/2002/1

1 May 2002

**NATIONAL COMMUNICATIONS FROM PARTIES NOT INCLUDED
IN ANNEX I TO THE CONVENTION**

PROVISION OF FINANCIAL AND TECHNICAL SUPPORT

**List of projects submitted by Parties not included in Annex I to the Convention
in accordance with Article 12, paragraph 4 of the Convention**

Note by the secretariat

I. MANDATE

1. By its decision 12/CP.4 (FCCC/CP/1998/16/Add.1), the Conference of the Parties requested the secretariat to compile and make available to Parties a list of projects submitted by Parties not included in Annex I to the Convention (non-Annex I Parties) in accordance with Article 12, paragraph 4, of the Convention.

II. APPROACH

2. In response to the above mandate, the secretariat reviewed the relevant sections of all 80 initial national communications submitted by non-Annex I Parties as at 1 May 2002 with a view to compiling the list of projects.

3. Pursuant to decision 10/CP.2 (FCCC/CP/1996/15/Add.1) and Article 12, paragraph 4, of the Convention, developing country Parties may, on a voluntary basis, propose projects for financing, including specific technologies, materials, equipment, techniques or practices that would be needed to implement such projects, together with, if possible, an estimate of all incremental costs of the reduction of emissions and increments of removals of greenhouse gases, as well as an estimate of the consequent benefits.

4. In order to provide Parties with more frequent updates of the list of projects submitted in accordance with Article 12, paragraph 4, of the Convention, the secretariat has compiled the information on these projects in a database. This information is posted on the secretariat's web site (www.unfccc.int/program/nai/ncweb0201.pdf) and hard copies are available on request.

LIST OF PROJECTS SUBMITTED BY PARTIES NOT INCLUDED IN ANNEX I TO THE CONVENTION IN ACCORDANCE WITH ARTICLE 12.4 OF THE CONVENTION*

No.	Project title	Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$*1000)	Country	Year of submission of the national communication
A.	Sector: Agriculture				
A.1.	Subsector: Adopt manure management practices for CH₄ collection				
	1 Manure management using biodigesters			Ecuador	
	2 Research into low methane emitting agriculture systems			Chad	2001
A.2.	Subsector: Expand biofuel production as carbon offset				
	1 Biogas programme in the agriculture and livestock sectors	2.68	60	Ecuador	2000
A.3.	Subsector: Improve management of ruminant animals				
	1 Animal breeding and use of biodigesters for the production energy			Mali	2000
	2 Diet enhancement of livestock using management programmes			Ecuador	2000
	3 Improvement of livestock diet			Chad	2001
	4 Information, education and communication on GHG emission reduction in agriculture and cattle breeding			Burundi	2001
	5 Programme on livestock and carbon uptake			Nicaragua	2001
	6 Reduction of methane emissions in livestock by introducing diet changes			Costa Rica	2000
	7 Research and development technologies aiming to reduce GHG emissions in agriculture and cattle breeding			Burundi	2001
A.4.	Subsector: Improve rice production practices				
	1 Improving water management in the irrigated rice cultivation			Mali	2000
	2 Use and management of rice crop wastes			Ecuador	2000
A.5.	Subsector: Increase carbon storage in agricultural soils				
	1 Awareness programme on agricultural practices that could help to curb GHG emissions			Seychelles	2000
	2 Pilot production of biohumus by processing organic part of solid urban wastes and manure		65	Armenia	1998
	3 Programme on livestock and carbon uptake			Nicaragua	2001
	4 Reduction in savanna burning			Chad	2001
	5 Soil nutrient management			Seychelles	2000
	6 Study of a problem of application of methane fermentation		35	Armenia	1998

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A.6. Subsector: Reduction of fossil energy use					
1	Introduction of metering and control systems of consumption of energy resources and water		72,300	Uzbekistan	2000
2	Rationalisation of energy-saving of irrigation systems and reduction of irrigation water losses		2,500	Uzbekistan	2000
3	Replacement of diesel pumping plants by electric drives		120,200	Uzbekistan	2000
4	Replacement of out-of-date machinery by qualitatively new machinery		1,000	Uzbekistan	2000
B. Sector: Energy					
B.1. Subsector: Decarbonization of flue gases and fuels, and CO₂ storage and sequestrating					
1	Reduction of flaring gas by 50%			Algeria	2001
2	Reduction of fugitive emissions by renovating oil and gas installations (refineries, pipelines)			Algeria	2001
B.2. Subsector: Efficient conversion of fossil fuels					
1	Action programme for the promotion of energy efficiency using energy audits, training programmes, public awareness and promoting solar energy			Niger	2000
2	Alkylation Unit		30,000	Jordan	1997
3	Carry out regular energy audits and put in place energy management plan			Seychelles	2000
4	Chemical Industry: 3 projects for upgrading energy systems		688,400	Uzbekistan	2000
5	Co-boiler for the fluid catalytic cracking Unit		2,740	Jordan	1997
6	Coal gasification			Botswana	2001
7	Combustion optimization in boilers in the industrial sector	21	1,500	Ecuador	2000
8	Construction of a 60 MW cogeneration plant			Barbados	2001
9	Continuous catalytic informer		85,000	Jordan	1997
10	Crude oil distillation unit		2,500	Jordan	1997
11	Declare emission standards for mobile and stationary sources			Seychelles	2000
12	Electric power supply: 12 projects for upgrading and more efficient new gas turbines and boilers		1,118,600	Uzbekistan	2000
13	Energy conservation project			Micronesia	1997
14	Energy efficiency improvement and GHG reduction			Egypt	1999

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15	Expansion of distillation capacity		80,000	Jordan	1997
16	Ferrous and non-ferrous metallurgy: 7 projects for power equipment		275,300	Uzbekistan	1999
17	Gasification		225,000	Jordan	1997
18	Heat recovery from sulphuric acid plant/Jordan Phosphate Mining Company		26,000	Jordan	1997
19	Heat recovery from the public electricity generation power stations			Seychelles	2000
20	Hydro desulphurization for diesel		60	Jordan	1997
21	Hydrocracking		100,000	Jordan	1997
22	Improve transmission and distribution system to bring down the current energy losses			Sri Lanka	2000
23	Improvement of baseline scenarios for the development and selection of appropriate policies and measures to mitigate climate change			Chad	2001
24	Improvements in efficiency relating to the control and administration of electricity distribution			Grenada	2000
25	Isomerization unit		30,000	Jordan	1997
26	Merox upgrade		1,000	Jordan	1997
27	Modern fluid catalytic cracker		200,000	Jordan	1997
28	Modernisation and rehabilitation of power plants		1,061	Kazakhstan	1998
29	Oil, Gas and Coal Industry: 6 projects for upgrading and more efficient new technologies		969,100	Uzbekistan	2000
30	Paper sludge and solid waste		AUS\$9,000,00	Indonesia	1999
31	Power generation and fuel refining		2,019	Azerbaijan	2000
32	Programme for the achievement of greater energy efficiency in energy transformation centers			Grenada	2000
33	Project for the reduction of losses in supply/distribution			Grenada	2000
34	Project to improve the efficiency of generators			Grenada	2000
35	Reduction in electricity supply system losses			Seychelles	2000
36	Sulphur Recovery Plant		5,000-10,000	Jordan	
37	Technical upgrading and change of fuel in two thermal plants			El Salvador	2000
38	Utilization of associated gas/increase in natural gas share in the energy balance			Kazakhstan	1998
B.3.	Subsector: Switching to low-carbon fossil fuels				
1	Electricity generation using residual natural gas	53/year	35,000	Ecuador	2000
2	Integrated solar thermal/natural gas power plant			Egypt	1999
3	Natural gas substitution of coal	7,800		Peru	2000
4	Natural gas substitution of diesel	6,000		Peru	2001

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No.	Project title	Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$*1000)	Country	Year of submission of the national communication
5	Piping of natural gas from the proposed West Africa Gas Pipeline to and within some urban areas of Ghana		480,000	Ghana	2001
6	Support construction of a gas pipeline from Mexico, in order to promote the use of natural gas in Honduras.			Honduras	2000
7	Technical upgrading and change of fuel in two thermal plants			El Salvador	2000
8	Two additional gas pipelines will substitutes coal , residual oil and diesel	2,400		Peru	2001
9	Utilization of associated gas/increase in natural gas share in the energy balance			Kazakhstan	1998
B.4. Subsector: Switching to renewable sources of energy					
1	16 MW in wind turbine farms at good wind sites in northern Barbados			Barbados	2001
2	Alternative energy sources			Kiribati	1999
3	Construction of wind farms			Barbados	2001
4	Demonstration project for grid-connected renewable energy technologies and their commercial and economic potential			Antigua and Barbuda	2001
5	Development and implementation of long-term renewable energy policy programmes, including the development and application of carefully-selected technological and institutional leapfrogging strategies			Antigua and Barbuda	2001
6	The development of renewable energy	11,091 equivalent in the period 2001-2020		Morocco	2001
7	Dissemination of solar, wind and biogas energy technology			Ethiopia	2001
8	Establishment of a renewable energy centre			Barbados	2001
9	Generation of energy from Botswana Meat Commission abattoir waste			Botswana	2001
10	Geothermal hot water supply: Hippodrome district geothermal hot water supply project		860	Georgia	1999
11	Hydroelectricity substitutes diesel	8,500		Peru	2001
12	Hydroelectricity substitutes natural gas	2,300		Peru	2001
13	Power generation options for Botswana from mixing and hybrids of renewable energy resources (solar, wind and waste)			Botswana	2001
14	Promote the use of renewable energy technologies and energy efficient appliances in the energy end-use sector			Seychelles	2000

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15	Promoting the use of renewable energy			Ethiopia	2001
16	Promotion of renewable energies: solar, wind and micro-hydro			Chad	2001
17	Removal of barriers to rural electrification with renewable energy			Chile	2000
18	Solar collectors	1,000		Peru	2001
19	Solar energy		482	Kazakhstan	1998
20	Use renewable sources of energy to satisfy the energy demand by 2010	61.49/year		Costa Rica	2000
21	Wind turbines	900		Peru	2000
B.4.1. End use/Description: Biomass/biogas					
1	10 MW waste combustion plant			Barbados	2001
2	Accelerated promotion of biogas technology in rural low income household			Zimbabwe	1998
3	Application of renewable energy system to sustainable rural development and demonstration hybrid system (1)		AUS\$240,000	Indonesia	1999
4	Application of renewable energy system to sustainable rural development and demonstration hybrid system (2)		AUS\$3,400,000	Indonesia	1999
5	Bamboo international developing company project, production of electricity using bamboo			Honduras	2000
6	Biogen Project, use of wood wastes and wastes of African palm to produce electricity			Honduras	2000
7	Electricity generation using wastes of wood in Ocotol area			Nicaragua	2001
8	Phytothermal energy production		880	Ghana	2001
9	Promoting sustainable biomass energy use in rural areas to reduce CO ₂ emissions			Morocco	2001
10	Remove barriers for using fast growing tree plants in the private sector as a source of renewable energy		50	Armenia	1998
11	Utilisation of organic residues from food processing plants for energy generation			Botswana	2001
B.4.2. End use/Description: Geothermal and ocean energy					
1	2 MW of solar photovoltaic distributed around the island			Barbados	2001
2	2 MW wave power plant			Barbados	2001
3	3 MW ocean thermal energy conversion plant			Barbados	2001
4	Conditions of geothermal resource studies and perspectives for the practical use of geothermal energy			Armenia	1998
5	Expand the use of geothermal energy in electricity generation			El Salvador	2000

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No.	Project title	Estimated emission reduction/sequestration (1000 mt CO ₂)	Cost (US\$*1000)	Country	Year of submission of the national communication
6	Exploration regarding geothermal energy in Jordan		1,400	Jordan	1997
7	Geothermal hot water supply: Tbilisi geothermal hot water supply project		30,800	Georgia	1999
8	Geothermal hot water supply: Zugdidi geothermal heat supply project		15,000	Georgia	1999
B.4.3. End use/Description: Hydropower					
1	Action programme for energy supply using hydro dams, solar and wind energy			Niger	2000
2	Alternative/renewable energy sources for the outer islands of the Maldives			Maldives	2001
3	Assessing small-scale hydropower potential and demonstration project in combination with dissemination of electric cook stove			Lao PDR	2000
4	Construction of Mpanda hydropower unit			Burundi	2001
5	Construction of small hydroelectric plants			El Salvador	2000
6	Energy generation using small hydroelectric systems	8.8/year	3,200	Ecuador	2000
7	Feasibility study on other renewable energy resources			Micronesia	1997
8	Harness the total maximum identified potential of hydropower, based on a study of the economic and environmental impacts of identified potential hydropower			Sri Lanka	2000
9	Increasing the number of hydropower units	4,902 equivalent in the period 2001-2020		Morocco	2001
10	Investment in small-scale hydroelectricity power stations to supply rural and peri-urban consumers			Zimbabwe	1998
11	Pilot programme for the rural electrification using small hydro-power plants			Nicaragua	2001
12	Removal of barriers to the development of hydroenergy			Haiti	2002
13	Renewable sources of energy: 2 hydro-power plants		720,000	Uzbekistan	1999
14	Replacement of diesel generators by hydropower, mainly in urban centres			Ethiopia	2001
15	Small hydro		578	Kazakhstan	1998
16	Small hydro-energetics: Abasha hydro-power plan rehabilitation project		1000	Georgia	1999
17	Small hydro-energetics: Intsoba hydro-power plant rehabilitation project		850	Georgia	1999
18	Small hydro-energetics: Martkopi hydro-power plant rehabilitation project		750	Georgia	1999
19	Small hydro-energetics: Misaktsieli hydro-power plant rehabilitation project		2,300	Georgia	1999
20	Small hydro-energetics: Stori hydro-power plant project		8,400	Georgia	1999

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No.	Project title	Estimated emission reduction/sequestration (1000 mt CO ₂)	Cost (US\$*1000)	Country	Year of submission of the national communication
21	Technologies required for conduction of mitigation policy: electric and mechanical equipment for small hydro and wind power plants		11,000	Georgia	1999
B.4.4. End use/Description: Solar energy					
1	Action programme for energy supply using hydro dams, solar and wind energy			Niger	2000
2	Application of renewable energy system to sustainable rural development and demonstration hybrid system (1)		AUS\$240,000	Indonesia	1999
3	Application of renewable energy system to sustainable rural development and demonstration hybrid system (2)		AUS\$3,400,000	Indonesia	1999
4	Building houses with efficient illumination and solar energy			El Salvador	2000
5	Decentralised energy supply through Solar home systems in rural households			Lao PDR	2000
6	Decentralizing electrification by photovoltaic systems			Burundi	2001
7	Electricity supply sector: removing barriers for implementing renewable energy (solar and wind)			Lebanon	1999
8	Encourage the use of photovoltaic (PV) energy			Tuvalu	1999
9	Encouraging the use of solar water heaters	728		Morocco	2001
		equivalent in the period 2001-2020			
10	Enhancement of the market for solar water heaters			Tunisia	2001
11	Expand rural electrification by promoting the use of renewable energy			El Salvador	2000
12	High efficiency photovoltaic (PV) module station: manufacturing and testing		25	Armenia	1998
13	Install solar mini-grid utilities to serve rural centres not connected to the grid			Zimbabwe	1998
14	Integrated solar thermal/natural gas power plant			Egypt	1999
15	Large scale power generation from solar energy			Botswana	2001
16	Power supply by photovoltaic systems to remote villages		3,500	Jordan	1997
17	Reducing wood consumption by promoting energy saving technologies such as solar lighting equipment			Mali	2000
18	Rehabilitation of the Regional Center for Solar Energy (CRES)			Mali	2000
19	Reverse osmosis water desalination (ROWD) with renewable energy hybrid system in remote areas		2,400	Jordan	1997

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No.	Project title	Estimated emission reduction/sequestration (1000 mt CO ₂)	Cost (US\$*1000)	Country	Year of submission of the national communication
20	SALT-gradient solar pond pilot plant		633	Jordan	1997
21	Solar and wind energy resources assessment and mapping		600	Mongolia	2001
22	Solar energy desalination			Indonesia	1999
23	Solar energy project for communities		115	Ghana	2001
24	Solar energy: Batumi heat supply with solar energy		21,800	Egypt	1999
25	Solar pilot project			Micronesia	1997
26	Solar			Jordan	1997
27	Subsidy programme for solar energy			Micronesia	1997
28	Use of solar energy for water heating in the residential sector	73	3,900	Ecuador	2000
B.4.5. End use/Description: Wind					
1	Action programme for energy supply using hydro dams, solar and wind energy			Niger	2000
2	Electricity generation using wind energy	12,655 equivalent in the period 2001-2020		Morocco	2001
3	Electricity supply sector: removing barriers for implementing renewable energy (solar and wind)			Lebanon	1999
4	Honduras`ZOND project. A 60 MW wind power stations, to be installed in the surroundings of Tegucigalpa.			Honduras	2000
5	Pilot project to generate electricity using wind			Grenada	2000
6	Substitution of thermic plants by a 25 MW wind energy unit	56 per year		Colombia	2001
7	Technologies required for conduction of mitigation policy: electric and mechanical equipment for small hydro and wind power plants		11,000	Georgia	1999
8	Use of eolian energy			Mexico	1997
9	Wind energy			Kazakhstan	1998
10	Wind Power: 'Karenergo' wind power plant project		5000	Georgia	1999
C. Sector: Forest					
C.1. Subsector: Conservation forests					
1	Activities implemented jointly: Río Cóndor carbon sequestration project			Chile	2000

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2	Activities implemented jointly: SIF carbon sequestration project			Chile	2000
3	Carbon sequestration projects in Bahia Kino in Sonora and in forested areas of Ciapas			Mexico	1997
4	Conservation and management of ecosystems in the Uraba zone	21,920 in 30 years		Colombia	2001
5	Conservation of natural forests in the Tinigua and Macarena zones	15,289 in 30 years		Colombia	2001
6	Controlling forest fires			Seychelles	2000
7	Conversion of livestock farms to agroforestry systems in the Puerto Carreño zone	5,034 in 25 years		Colombia	2001
8	Forest conservation and reforestation in the Medio Atrato zone	3,662 kilotonnes of carbon plus 194 kilotonnes of CO ₂		Colombia	2001
9	Forest conservation and reforestation in the Purace zone	24,531 in 30 years		Colombia	2001
10	Forest conservation and reforestation in the Quindio zone	9,146 in 30 years		Colombia	2001
11	Forest conservation in the Bucaramanga corporation's zone	7,408 in 25 years		Colombia	2001
12	Forest conservation in the Guerrero zone	1,316 kilotonnes of carbon		Colombia	2001
13	Forestry: Tbilisi Dendrological Park restoration project		230	Georgia	1999
14	Protecting/managing forests in reserves and protected areas			Seychelles	2000
15	Quantitative evaluation of the carbon sink potential of FSM ecosystems			Micronesia	1997
16	Restoration and protection of the tropical humid forest in the area of Esperanza Verde, Rio San Juan			Nicaragua	2001
17	Three further projects in Oaxaca, Campeche and Monarc Butterfly Reserve			Mexico	1997

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C.2. Subsector: Forest practices/goals					
1	Afforestation with exotic species	9,900		Peru	2001
2	Afforestation with indigenous species	4,300		Peru	2001
3	Coffee cultivation			Peru	
4	Control of deforestation			Seychelles	2000
5	Controlling commercial biomass harvest			Seychelles	2000
6	Controlling outbreak of pests and invasive species			Seychelles	2000
7	Enhancement of the Ecuador's national system of protected areas	93,900 t C		Ecuador	2000
8	Establishment of silvopastoral systems in the Gaumote area	1,750 t C		Ecuador	2000
9	Forest management in the Calamar zone	35,012 in 25 years		Colombia	2001
10	Forest management	2,400		Peru	2001
11	Forestry plantations in the Balzar area	1,750 t C		Ecuador	2000
12	Forestry plantations in the Bolivar area	525 t C		Ecuador	2000
13	Forestry: 'Nabadkhevi' forest rehabilitation project		270	Georgia	1999
14	Forestry: afforestation project of 'Red Bridge' environs		250	Georgia	1999
15	Forestry: reforestation project of Kaspi district		350	Georgia	1999
16	Green belt of the Guayaquil city	42 t C		Ecuador	2000
17	Hydrologic rehabilitation and carbon uptake for the sustainability of the coffee production in the Matagalpa area			Nicaragua	2001
18	Joint forestry project to offset GHG emissions		5000	Ghana	2001
19	Management of forests in the Puyango area	105 t C		Ecuador	2000
20	Management of forests in order to slow down deforestation rates			Chad	2001
21	Pijuayo for palmito			Peru	
22	Prepare a database to a) quantify the role of forests, forest soils as reservoirs, sinks and sources of Carbon and b) define ways to alter forest management systems to optimize adaptation to climate change, sequestration and storage of Carbon			Sri Lanka	2000
23	Private forestry project			Costa Rica	2000
24	Promote planting of Pourghere to preserve vegetation, to maintain the fertility of soils and to increase the sequestration of CO ₂	20/30 years		Niger	2000
25	Protected areas project			Costa Rica	2000

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26	Reforestation of 30,000 ha per year			Burundi	2001
27	Reforestation of several areas using trees able to adapt to difficult ecological conditions			Chad	2001
28	Rehabilitation of degraded forest areas		1,500	Ghana	2001
29	Replication of a reforestation project in other regions of the country			Mali	2000
30	Socio-economic development of rural communities in the Caribbean zone	3,818 in 25 years		Colombia	2001
31	Support for the implementation of the Forestry Policy and Action Plan			Grenada	2000
32	Supporting the reforestation master plan	7,147 equivalent in the period 2001-2020		Morocco	2001
33	Sustainable management of the Chachi native forest in the Cayapas river	30 t C		Ecuador	2000
34	The use of remote sensing for monitoring forest cover changes and for establishing base-line data			Ghana	2001
C.3.	Subsector: Fuel wood conservation and substitution				
1	Substitution of firewood by other energy resources			Chad	2001
C.4.	Subsector: Production forestry/agroforestry				
1	Agroforestry projects in twelve areas that have degraded soils			Honduras	2000
2	The development of agroforestry	4,613 equivalent in the period 2001-2020		Morocco	2001
3	Establishment of silvopastoral systems in the Gaumote area	1,750 t C		Ecuador	2000
4	Establishment of the agroforestry systems in the Carmen area	1,750		Ecuador	2000
5	Forestry plantations in the Balzar area	1,750 t C		Ecuador	2000
6	Forestry plantations in the Bolivar area	525 t C		Ecuador	2000
7	Green belt of the Guayaquil city	42 t C		Ecuador	2000
8	Joint forestry project to offset GHG emissions		5000	Ghana	2001
9	Private forestry project			Costa Rica	2000

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10	Protected areas project			Costa Rica	2000
11	Sequestration of CO ₂ : demonstration of carbon increase in forests.			Chile	2000
12	Sequestration of CO ₂ : measurement of carbon sequestration in Chilean forests and promotion in a global carbon market			Chile	2000
C.5.	Subsector: Use of recycled and more efficient wood products				
1	Enhancement of the use of treatments for the better preservation of wood products			Burundi	2001
D.	Sector: Industrial				
D.1.	Subsector: Cogeneration and thermal cascading				
1	Cogeneration in sugarcane production			Colombia	2001
2	Cogeneration in the textile industry	9 equivalent per year		Colombia	2001
3	Cogeneration project			Grenada	2000
4	Development of cogeneration	4,002 equivalent in the period 2001-2020		Morocco	2001
5	Gasification of sugarcane bagasse for energy generation			Colombia	2001
D.2.	Subsector: Energy efficiency gains				
1	Building and industrial building sectors: 6 projects		13,000	Uzbekistan	1999
D.3.	Subsector: Fuel switching				
1	Industrial sector: efficiency improvements to boilers and furnaces via replacement and fuel switching options			Lebanon	1999
D.4.	Subsector: Introducing new technologies and processes				
1	Activities implemented jointly: CHILIPAVE: Chili cold mix in place; recycled asphalt pavement greenhouse gas reduction project			Chile	2000
2	Building and industrial building sectors: 6 projects		13,000	Uzbekistan	1999

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No.	Project title	Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$*1000)	Country	Year of submission of the national communication
3	Coal bed methane investigations			Botswana	2001
4	Cooling system in cement production			Indonesia	1999
5	Demonstration and introduction of smokeless and high-efficiency coal bracketing technology		15,000	Mongolia	2001
6	Desalinization of water using wind energy in Tan-Tan	292 equivalent in the period 2001-2020		Morocco	2001
7	Desalinization water plant for San Andres	5 equivalent per year		Colombia	2001
8	Develop an inventory on emissions from different industries			Sri Lanka	2000
9	Develop mechanisms to reduce GHG emissions from different industries			Sri Lanka	2000
10	Drying sugar beet by using superheated steam in the Doukkala sugar refineries	350 equivalent in the period 2001-2020		Morocco	2001
11	Economic evaluation of GHG abatement strategies			Senegal	1997
12	Efficiency improvement and conversion of industrial boilers	2,100		Peru	2001
13	Electricity generation from biogas in Bogota	12,218 equivalent in 20 years		Colombia	2001
14	Electricity generation from biogas in Tumaco	5 equivalent per year		Colombia	2001
15	Electricity generation from biogas in Tunja	11 equivalent per year		Colombia	2001
16	Energy auditing in industries			Burundi	2001
17	Exploring potential markets for natural gas			Barbados	2001
18	Finish construction of the aggregates for production of weak nitric acid and ammonia saltpetre at fergana PO 'Azot'		8,800	Uzbekistan	1999
19	Improved energy efficiency in brick manufacture	54,339 equivalent per year		Colombia	2001

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No.	Project title	Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$*1000)	Country	Year of submission of the national communication
20	Improved energy efficiency in coke production	65 equivalent per year		Colombia	2001
21	Improved energy efficiency in juggery production	277 equivalent per year		Colombia	2001
22	Industrial sector: efficiency improvements to boilers and furnaces via replacement and fuel switching options			Lebanon	1999
23	Industrial Sector: motor-driven system improvement and replacement			Lebanon	1999
24	Integration of climate change topics in curricula of technical studies			Grenada	2000
25	Modification of wet-type cement mills to dry-type mills in the Mongolian cement industry		20,000	Mongolia	2001
26	Other Industries: 3 projects (cotton, butter-oil) to improve power generation		20,800	Uzbekistan	1999
27	Partial substitution of clinker by fly ash from thermal plants	6,000 equivalent in the period 2001-2020		Morocco	2001
28	Programme/project to disseminate information on energy audits, rational use of energy, energy diversification and clean technologies in the industrial sector			Grenada	2000
29	Project for the standardization and certification of industrial equipment			Grenada	2000
30	Project to build national consulting capacity in energy and environment in the industrial sector			Grenada	2000
31	Project to increase energy efficiency in Kaspi cement plant		1,000	Georgia	1999
32	Research on agricultural by-products, vegetable oils and alcohol as alternative sources of energy			Mali	2000
33	Set up energy education and extension services for industries			Seychelles	2000
34	Setting up of manufacturing facilities to produce high-purity silicon for the computer chip and solar photovoltaic industries			Barbados	2001
35	Technological upgrading in cement industry			El Salvador	2000
36	Technologies required for conduction of mitigation policy: electric filters necessary for the Kaspi cement plant		500	Georgia	1999
37	Transfer of the first shift of ammonia production of PO navoiazot for production of methanol		2,500	Uzbekistan	1999
38	Updating technology of nitrate producing aggregate at the Fergana PO "Azot"		30,000	Uzbekistan	1999
39	Upgrading of nitrate producing shop in Chirchik PO 'Eletrohimprom'		20,000	Uzbekistan	1999

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No.	Project title	Estimated emission reduction/sequestration (1000 mt CO ₂)	Cost (US\$*1000)	Country	Year of submission of the national communication
40	Use of humid phosphate instead of dry phosphate in the Jorf Lasfer plant	894 equivalent in the period 2001-2020		Morocco	2001
41	Use of more energy efficient and clean technology in industries			Seychelles	2000
42	Use of renewable energy technologies in hotels and guesthouses			Seychelles	2000
43	The use of solar distillation as a source of fresh water for the outer islands and Male			Maldives	2001
D.5.	Subsector: Material substitution				
1	Partial substitution of black phosphate by white phosphate in Youssoufia	1,981 equivalent in the period 2001-2020		Morocco	2001
2	Use of wastes as energy source and use of alternative materials to clinker in cement production			Costa Rica	2000
D.6.	Subsector: Process improvements				
1	Cement industry: conservation and preheating in pyroprocessing and improvements in the grinding process			Lebanon	1999
2	Coal upgrading (coal drying plant)			Indonesia	1999
3	Combustion optimization in boilers in the industrial sector	21	1,500	Ecuador	2000
4	Commission a study on energy recovery from waste			Sri Lanka	2000
5	Cooling system in cement production			Indonesia	1999
6	Economic and environmental benefits of energy efficiency and conservation at the Barnangwato Concession Limited - Copper/Nickel Mine			Botswana	2001
7	Energy demand side management programme for Mongolian industry		500	Mongolia	2001
8	Heat recovery in the Safi and Jorf Lasfer chemical plants	4,690 equivalent in the period 2001-2020		Morocco	2001
9	Improvements to the La Sierra thermic powerplant			Colombia	2001

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No.	Project title	Estimated emission reduction/sequestration (1000 mt CO ₂)	Cost (US\$*1000)	Country	Year of submission of the national communication
10	Increased use of natural gas in the industrial sector	15,354 equivalent in the period 2001-2020		Morocco	2001
11	Rational use of energy in the industrial sector	10,920 equivalent in the period 2001-2020		Morocco	2001
12	Recover LPG from natural gas	686/year	67,000	Ecuador	2000
13	Reduction of losses in the energy sector	0.385/year	128,000	Ecuador	2000
14	Rehabilitation of mining sites in Khouribga	264 equivalent in the period 2001-2020		Morocco	2001
15	Replacement of boilers in the industrial and tertiary sectors	450 equivalent in the period 2001-2020		Morocco	2001
16	Use of wastes as energy source and use of alternative materials to clinker in cement production			Costa Rica	2000
E.	Sector: Residential, Commercial and Institutional Buildings				
E.1.	Subsector: Building equipment				
1	Use of solar energy for water heating in the residential sector	73	3,900	Ecuador	2000
E.1.1.	End use/Description: Cooking				
1	Assessing small-scale hydropower potential and demonstration project in combination with dissemination of electric cook stove			Lao PDR	2000
2	Assessment of emissions from kerosene stoves			Kiribati	1999
3	Developing project proposal for improved cooking stoves demonstration project			Lao PDR	2000
4	Dissemination of ecological stoves in the Pacific Region of Nicaragua			Nicaragua	2001

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No.	Project title	Estimated emission reduction/sequestration (1000 mt CO ₂)	Cost (US\$*1000)	Country	Year of submission of the national communication
5	Improvement of carbonization techniques			Burundi	2001
6	Improving/promoting energy efficiency and conservation e.g. wide distribution of improved biomass and charcoal stoves			Ethiopia	2001
7	Introduction of improved stoves			Ethiopia	2001
8	Promoting biogas use for GHG emission reduction			Lao PDR	2000
9	Promoting the use of improved stoves in rural and urban areas			Burundi	2001
10	Promotion and diffusion of improved ovens and practices to reduce the use of fuelwood	70	400	Ecuador	2000
11	Recovery and use of sawing waste for briquette production			Burundi	2001
12	Substitution of fuel-wood in rural areas through promotion and use of residues			Botswana	2001
13	Use of liquified petroleum gas (LPG) for domestic cooking			Seychelles	2000
E.1.2. End use/Description: Cooling					
1	Demonstration heating and cooling system implementation on the basis of environmentally safe heat pump equipment		20	Armenia	1998
2	Rehabilitation of heating and cooling of buildings by environmentally safe systems for the earthquake zone of Armenia		2000	Armenia	1998
E.1.3. End use/Description: Energy management					
1	Adopt energy efficient building codes and standardization and labelling of energy consuming end use equipment			Sri Lanka	2000
2	Demand management and promotion of substitute energy sources			Senegal	1997
3	Demonstration project to create a demand side management programme unit			Antigua and Barbuda	2001
4	Development of a plan to decentralize electrification			Burundi	2001
5	Development of a system for assessing potential mitigation options			Cuba	2001
6	Energy audits for commercial and institutional buildings			Seychelles	2000
7	Energy conservation program in the public sector			Grenada	2000
8	Energy conservation programme			Barbados	2001
9	Establishment of a sustainable energy centre		2,000	Mongolia	2001
10	Establishment of an educational campaign of rational use of energy			Honduras	2000
11	Evaluation of the electricity generation system			Kiribati	1999

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No.	Project title	Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$*1000)	Country	Year of submission of the national communication
12	Expand and strengthen the capacity of the Energy Conservation Fund to improve its capability to assist different stakeholders in the energy sector in the areas of energy conservation and management			Sri Lanka	2000
13	Financing the decentralization of rural electrification	604 equivalent in the period 2001-2020		Morocco	2001
14	Improvement of energy efficiency of buildings in Western Africa (Senegal and Cote d'Ivoire)		3500	Senegal	1997
15	Improvements in building insulation		500	Mongolia	2001
16	Incorporation of energy efficient measures and standards in building design			Seychelles	2000
17	Information programme in efficient use of energy and energy diversification in the services sector			Grenada	2000
18	Introduction of incentives for the substitution of electricity by renewable energy			Grenada	2000
19	Investing in demand-side management in the electricity sector			Zimbabwe	1998
20	Lower energy consumption through demand-side energy efficiency and conservation programmes and incentives			Mauritius	1999
21	Programme of training and technical assistance for efficient use of energy			Grenada	2000
22	Programme to conserve and efficiently use energy through seed fund			El Salvador	2000
23	Providing the public with a menu of architectural designs for residential buildings that take advantage of natural lighting and cooling			Grenada	2000
24	Rational use of energy in government buildings	350 equivalent in the period 2001-2020		Morocco	2001
25	Reconstruction and improvement of small-size boiler houses		5,000	Mongolia	2001
26	Residential and commercial energy efficiency building codes			Botswana	2001
27	Setting rules for thermic building efficiency			Tunisia	2001
28	Setting up of an energy efficient use and conservation extension service within the Energy Affairs Bureau			Seychelles	2000
29	Sustainable management of the domestic energy sector		20,000	Haiti	2002

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E.1.4. End use/Description: Heating					
1	Demonstration heating and cooling system implementation on the basis of environmentally safe heat pump equipment		20	Armenia	1998
2	Energy saving in district heating system improvement		814	Kazakhstan	1998
3	Pilot project on heating and hot water supply		814	Kazakhstan	1998
4	Rehabilitation of heating and cooling of buildings by environmentally safe systems for the earthquake zone of Armenia		2000	Armenia	1998
5	Removing barriers to energy efficiency in municipal heat and hot water supply		211	Georgia	1999
6	Use of solar energy for water heating in the residential sector	73	3,900	Ecuador	2000
E.1.5. End use/Description: Lighting					
1	Building houses with efficient illumination and solar energy			El Salvador	2000
2	Carbon emission reduction through replacement of incandescent bulbs with compact fluorescent lamps		12,000	Mongolia	2001
3	Demonstration project to promote compact fluorescent lamps (CFLs) for residential use			Antigua and Barbuda	2001
4	Efficient lighting programme			Botswana	2001
5	Energy saving in the residential sector by lamps substitution	680	27,200	Ecuador	2000
6	Enhance energy saving in the residential sector by using compact fluorescent lamps			Costa Rica	2000
7	Incandescent lamps substitution by efficient lamps, oriented to the residential sector			Honduras	2000
8	Introduction of compact fluorescent bulbs and timers/switches to low income consumers via the removal of common external tariff (CET), and domestic taxes/levies			Grenada	2000
9	Reducing CO ₂ emissions through use of compact fluorescent lamps in the government and commercial sectors			Lao PDR	2000
10	Rural electrification with solar photovoltaic (PV) systems	8.4	5,100	Ecuador	2000
11	Substitution of conventional lamps in Villavicencio	1 equivalent per year		Colombia	2001
12	Substitution of photovoltaic lanterns for kerosene lighting			Ethiopia	2001
13	Use of low-wattage and renewable energy technologies, such as, compact fluorescent lamp (CFL) and solar water heater (SWH)			Seychelles	2000

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E.1.6. End use/Description: Motors					
1	Introduce demand-side measures (DSM) such as peak lopping through appropriate pricing, popularization of more efficient end use devices such as luminaries, refrigerators, air-conditioners and motors, etc.			Sri Lanka	2000
E.1.7. End use/Description: Other appliances					
1	Promote the use of improved boilers in socioeconomic establishments (hammams, ovens)	3,426 equivalent in the period 2001-2020		Morocco	2001
E.1.8. End use/Description: Refrigeration					
1	Certification of refrigerators			Tunisia	2001
2	Introduce demand-side measures (DSM) such as peak lopping through appropriate pricing, popularization of more efficient end use devices such as luminaries, refrigerators, air-conditioners and motors, etc.			Sri Lanka	2000
3	Use of energy efficient refrigerators and freezers			Seychelles	2000
E.1.9. End use/Description: Water heating					
1	Introduction of solar water-heat collectors (SWHC) into the energy system			Armenia	1998
2	Pilot project on heating and hot water supply		814	Kazakhstan	1998
3	Removing barriers to energy efficiency in municipal heat and hot water supply		211	Georgia	1999
4	Solar hot water supply demonstration system for the international post-trauma rehabilitation centre (IPTRC)		200	Armenia	1998
E.2. Subsector: Building thermal integrity					
1	Energy efficiency: building sector			Lebanon	1999
2	Enhancing thermal performance of building envelopes: capacity-building project			Lebanon	1999
3	Enhancing thermal performance of building envelopes: market-based programme			Lebanon	1999
4	Improvement of energy efficiency of buildings in Western Africa (Senegal and Cote d'Ivoire)		3500	Senegal	1997

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F. Sector: Solid Waste and Wastewater Disposal					
F.1.1. End use/Description: Solid waste disposal					
1	Climate change early action technology measures: methane recovery from landfill			Egypt	1999
2	Composting and Landfilling with Gas Recovery and Flaring			Lebanon	1999
3	Composting and landfilling with gas recovery and utilization			Lebanon	1999
4	Development of sewage treatment facilities			Maldives	2001
5	Landfilling with gas recovery and flaring			Lebanon	1999
6	Landfilling with gas utilisation			Lebanon	1999
7	Pilot production of biohumus by processing organic part of solid urban wastes and manure		65	Armenia	1998
8	Promote proper solid waste management with methane recovery			Sri Lanka	2000
9	Recovery and utilization of the methane from landfills			Grenada	2000
10	Recovery of biogas from solid waste disposal sites in Mediouna and Marrakesh	6,121 equivalent in the period 2001-2020		Morocco	2001
11	Reduction of methane emission from the atmosphere through commercial utilization of landfill methane			Egypt	1999
F.1.2. End use/Description: Waste water treatment					
1	Aerobic treatment of wastewater			Seychelles	2000
2	Generation of electricity using natural gas from the Rio Azul Landfill	3.64 t CH ₄ /year		Costa Rica	2000
3	Implementation of an integrated waste management system			Maldives	2001
4	Recovery of biogas from waste-water treatment plants in Benslimane and Grand Agadir	834 equivalent in the period 2001-2020		Morocco	2001
5	Treatment of commercial and industrial waste before discharge into aquatic and terrestrial environment			Grenada	2000
6	Wastewater treatment in the coffee production			Costa Rica	2000

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No.	Project title	Estimated emission reduction/sequestration (1000 mt CO ₂)	Cost (US\$*1000)	Country	Year of submission of the national communication
F.2. Subsector: Source reduction					
1	Collection and transportation of solid waste in major cities		9,000	Mongolia	2001
F.2.1. End use/Description: Composting					
1	Composting and Landfilling with Gas Recovery and Flaring			Lebanon	1999
2	Composting and landfilling with gas recovery and utilization			Lebanon	1999
3	Pilot production of biohumus by processing organic part of solid urban wastes and manure		65	Armenia	1998
4	Promotion of composting for biogas production			Chad	2001
5	Recycling and composting of solid waste			Seychelles	2000
6	Recycling, reuse, composting and smart selection of materials for use			Grenada	2000
F.2.2. End use/Description: Incineration					
1	Municipal and household sector: waste incinerating plant for Tashkent		45,000	Uzbekistan	1999
F.2.3. End use/Description: Recycling					
1	Pilot production of biohumus by processing organic part of solid urban wastes and manure		65	Armenia	1998
2	Recycling and composting of solid waste			Seychelles	2000
3	Recycling, reuse, composting and smart selection of materials for use			Grenada	2000
4	Study of a problem of application of methane fermentation		35	Armenia	1998
G. Sector: Transport					
G.1. Subsector: Alternative energy sources					
1	Integrated system for zero or reduced emission fuel cell bus operation in Cairo			Egypt	1999
2	Introduction of electric vehicles, trolleys and trains			El Salvador	2000
3	Natural gas vehicles (refuelling station and conversion kit)		AUS\$32,800,0	Indonesia	1999
4	Producing hydrogen from renewable energy to power fuel cell vehicles, e.g. cars and buses			Barbados	2001
5	Promote the use of gasohol (blending of ethanol with gasoline) for cars			Ethiopia	2001
6	Promoting the use of fuels with low carbon content (fuel switching)			Ethiopia	2001
7	Promotion of bicycle usage			El Salvador	2000
8	Rapid public transport system utilising electric-powered vehicles			Mauritius	1999

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G.2. Subsector: Energy efficiency improvements					
G.2.1. End use/Description: Improve fleet management					
1	Adopt an appropriate road pricing system			Sri Lanka	2000
2	Better engine and tyre maintenance and driver training			Grenada	2000
3	Declare emission standards for mobile and stationary sources			Seychelles	2000
4	Development of a concept, strategy and action plan to reduce emissions from road vehicles		400	Armenia	1998
5	Development of a sustainable inter-island sea-based mass transportation system			Maldives	2001
6	Diagnostic centres for vehicle engines	4,187		Morocco	2001
		equivalent in the period 2001-2020			
7	Dissemination of leaflets, pamphlets, and brochures on vehicle selection, maintenance, control of fuel combustion and emissions on good driving practices			Grenada	2000
8	Equipping the highway patrol unit with required resources to enforce measures and regulations			Seychelles	2000
9	Implementation of proper transport/traffic management using control changes in traffic flow through improved traffic signal timing and adopting measures to encourage increased capacity utilization			Grenada	2000
10	Implementing measures to reduce the atmospheric pollution caused by the transport sector			Mali	2000
11	Improve traffic management systems through the use of information technology			Sri Lanka	2000
12	Improvement of the public transport system			Seychelles	2000
13	Improving the efficiency of transport system in Ghana			Ghana	2001
14	Improving vehicle efficiency by carrying out maintenance, inspections and training			Ethiopia	2001
15	Integrate bus-rail operation through proper network planning			Sri Lanka	2000
16	Introduce a suitable vehicle inspection and monitoring programme			Sri Lanka	2000
17	Light electric rail system for the east coast/shifting to sea transport			Seychelles	2000
18	Promoting environmentally friendly transport modes such as bicycles			Ethiopia	2001
19	Promotion of the use of smaller cars through tax differentiation based on engine size			Ethiopia	2001
20	Re-opening of the railway services to reduce the use of fuels in the highways			Costa Rica	2000
21	Road transport		2,000	Uzbekistan	1999
22	Technical inspections in the transport sector	23,800		Peru	2001

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23	Traffic management plan			Seychelles	2000
G.2.2. End use/Description: Improve speed management					
1	Driver awareness campaign for efficient use of vehicles			Seychelles	2000
2	Improving urban traffic			Ethiopia	2001
G.2.3. End use/Description: Increase vehicle load factor					
1	Implementation of proper transport/traffic management using control changes in traffic flow through improved traffic signal timing and adopting measures to encourage increased capacity utilization			Grenada	2000
G.2.4. End use/Description: Vehicle energy intensity reduction					
1	Climate change early action technology measures: retrofitting two-stroke engines			Egypt	1999
2	Conversion of taxis to liquefied petroleum gas	500		Peru	2001
3	Conversion of vehicles from normal fuel to LPG			Colombia	2001
4	Establish level of vehicular emissions for purposes of adequate planning		48	Ghana	2001
5	Formulation and implementation of a procurement policy for vehicles in the public (Government) sector (more efficient models, large groups transport and load)			Grenada	2000
6	Fuel efficiency in transport			Botswana	2001
7	Improvements in motor fleet structure, technical characteristics of engines and quality of roads		460	Azerbaijan	2000
8	Initiate a 'Clean Air Act'			Mauritius	1999
9	Introduction of trade regulations, tariffs for fuel efficiency and domestic fuel taxes			Grenada	2000
10	Modernisation and Technical Upgrading of Vehicle Park			El Salvador	
11	Modernization and technical upgrading of the vehicle fleet			El Salvador	2000
12	Phase-out old vehicles (bonds)	3,700		Peru	2001
13	Planning and implementing a programme for technical control of vehicles to reduce fuel consumption			Niger	2000
14	Removing barriers to adoption of 4 - stroke engine for two wheelers			Lao PDR	2000
15	Road transport		2,000	Uzbekistan	1999
16	Vehicle fuel efficiency improvement		900	Mongolia	2001

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G.3. Subsector: Infrastructure changes, modal shift and fleet management					
G.3.1. End use/Description: Traffic reduction					
1	Implementation of an integrated transport system in the large metropolitan area of Costa Rica			Costa Rica	2000
2	Improvement of urban and inter-urban road networks			El Salvador	2000
3	Increase mass public transportation means			El Salvador	2000
4	Promotion of bicycle usage			El Salvador	2000
5	Railroad Transport		1,464,000	Uzbekistan	1999
6	Rapid public transport system utilising electric-powered vehicles			Mauritius	1999
G.3.2. End use/Description: Transport energy intensity reduction (fleet management)					
1	Air Transport		1,000,000	Uzbekistan	1999
2	Bicycle paths	23,900		Peru	2001
3	Expansion of public transport infrastructure			Ethiopia	2001
4	Improvements in motor fleet structure, technical characteristics of engines and quality of roads		460	Azerbaijan	2000
5	Increase mass public transportation means			El Salvador	2000
6	Promotion of bicycle usage			El Salvador	2000
7	Railway network enhancement		Between US\$ 52.836 million and US\$ 111.888	Ghana	2001
8	Re-opening of the railway services to reduce the use of fuels in the highways			Costa Rica	2000
9	Setting up of a second city on Mahe			Seychelles	2000

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