



FRAMEWORK CONVENTION ON CLIMATE CHANGE - Secretariat CONVENTION - CADRE SUR LES CHANGEMENTS CLIMATIQUES - Secrétariat

FCCC/WEB/2002/8 20 September 2002

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

PROVISION OF FINANCIAL AND TECHNICAL SUPPORT

<u>List of projects submitted by Parties not included in Annex I to the Convention</u> 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 85 initial national communications submitted by non-Annex I Parties as at 1 September 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 (unfccc.int/resource/webdocs/2002/08.pdf ___) and hard copies are available on request.

	OF PROJECTS SUBMITTED BY PARTIES NOT INCLUDED IN ANNEX I TO THE CON				V
	Project title	Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$1000)	Country	Year
A.1.	Subsector: Adopt manure management practices for CH ₄ collection				
	1 Manure management using biodigesters			Ecuador	2000
	2 Research into low methane emitting agriculture systems			Chad	2001
\.2.	Subsector: Expand biofuel production as carbon offset				
	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
	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
\.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
.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

A.6. Subsector: Increase nitrogen fertilizer use efficiency

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	Project title	Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$1000)	Country	Year
A .7.	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 drive		120,200	Uzbekistan	2000
	4 Replacement of out-of-date machinery by qualitatively new machinery		1,000	Uzbekistan	2000
В.	Sector: Energy Supply				
B.1.	Subsector: Decarbonization of flue gases and fuels, and CO ₂ storage and sequestra	ting			
	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,			Niger	2000
	training programmes, public awareness and promoting solar energy		00.000	L L	4007
	2 Alkylation Unit		30,000	Jordan	1997
	3 Carry out regular energy audits and put in place energy management plan		600 400	Seychelles Uzbekistan	2000
	4 Chemical Industry: 3 projects for upgrading energy systems		688,400		2000
	5 Co-boiler for the fluid catalytic cracking Unit		2,740	Jordan	1997
	6 Coal gasification	21	1 500	Botswana	2001 2000
	7 Combustion optimization in boilers in the industrial sector	21	1,500	Ecuador	2000
	8 Construction of a 60 MW cogeneration plant9 Continuous catalytic informer		85,000	Barbados Jordan	1997
	9 Continuous catalytic informer 10 Crude oil distillation unit		2,500	Jordan	1997
	11 Declare emission standards for mobile and stationary sources		2,500	Seychelles	2000
	·		1 110 600	•	
	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
	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

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	Project title	Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$1000)	Country	Year
	18 Heat recovery from sulpheric acid plant/Jordan Phosphate Mining Company		26,000	Jordan	1997
	19 Heat recovery from the public electricity generation power stations		_5,555	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\$9,000,000	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 to 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				
	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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	Project title	Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$1000)	Country	Year
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 9	Two additional gas pipelines will substitutes coal, residual oil and diesel Utilization of associated gas/increase in natural gas share in the energy balance	2,400		Peru Kazakhstan	2001 1998
	ubsector: Switching to nuclear energy				
B.5. S (ubsector: Switching to renewable sources of energy 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
	2 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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	Project title	Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$1000)	Country	Year
	15 Promoting the use of renewable energy 16 Promotion of renewable energies: solar, wind and micro-hydro 17 Removal of barriers to rural electrification with renewable energy 18 Solar collectors 19 Solar energy 20 Use renewable sources of energy to satisfy the energy demand by 2010 21 Wind turbines	1,000 61.49/year 900	482	Ethiopia Chad Chile Peru Kazakhstan Costa Rica Peru	2001 2001 2000 2001 1998 2000 2000
B.5.1.	 End use/Description: Biomass/biogas 10 MW waste combustion plant Accelerated promotion of biogas technology in rural low income household Application of renewable energy system to sustainable rural development and demonstration hybrid system (1) Application of renewable energy system to sustainable rural development and demonstration hybrid system (2) Bamboo international developing company project, production of electricity using bamboo Biogen Project, use of wood wastes and wastes of African palm to produce electricity Electricity generation using wastes of wood in Ocotal area Phytothermal energy production Promoting sustainable biomass energy use in rural areas to reduce CO₂ emissions Remove barriers for using fast growing tree plants in the private sector as a source of renewable energy Utilisation of organic residues from food processing plants for energy generation 		AUS\$240,000 AUS\$3,400,000 880 50	Barbados Zimbabwe Indonesia Indonesia Honduras Honduras Nicaragua Ghana Morocco Armenia Botswana	2001 1998 1999 1999 2000 2000 2001 2001 2001 1998 2001
B.5.2.	 End use/Description: Geothermal and ocean energy 2 MW of solar photovoltaic distributed around the island 2 MW wave power plant 3 MW ocean thermal energy conversion plant 			Barbados Barbados Barbados	2001 2001 2001

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		Project title	Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$1000)	Country	Year
	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
	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
	9	Production of electric energy using geothermal resources		88,000	Djibouti	2002
B.5.3.	Er	nd 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 People's Democratic Republic	2000
	4	Construction of Mpanda hydropower unit			Burundi	2001
	5	Construction of small hydroelectric plants			El Salvador	2000
	6 7	Energy generation using small hydroelectric systems Feasibility study on other renewable energy resources	8.8/year	3,200	Ecuador Micronesia	2000 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
		Removal of barriers to the development of hydroenergy			Haiti	2002
		Renewable sources of energy: 2 hydro-power plants		720,000	Uzbekistan	1999
		Replacement of diesel generators by hydropower, mainly in urban centres		•	Ethiopia	2001
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		Project title	Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$1000)	Country	Year
	15	Small hydro		578	Kazakhstan	1998
		Small hydro-energetics: Abasha hydro-power plan rehabilitation project		1000	Georgia	1999
		Small hydro-energetics: Intsoba hydro-power plant rehabilitation project		850	Georgia	1999
		Small hydro-energetics: Martkopi hydro-power plant rehabilitation project		750	Georgia	1999
		Small hydro-energetics: Misaktsieli hydro-power plant rehabilitation project		2,300	Georgia	1999
		Small hydro-energetics: Stori hydro-power plant project		8,400	Georgia	1999
		Technologies required for conduction of mitigation policy: electric and mechanical equipment for small hydro and wind power plants		11,000	Georgia	1999
B.5.4.	Er 1	nd use/Description: Solar energy 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 People's Democratic Republic	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 equivalent in the period 2001-2020		Morocco	2001
	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

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	Project title	Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$1000)	Country	Year
	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 Promoting the use of photovoltaic equipment	161 t CO2	943	Mauritania	2002
	18 Reducing wood consumption by promoting energy saving technologies such as solar lighting equipment			Mali	2000
	19 Rehabilitation of the Regional Center for Solar Energy (CRES)			Mali	2000
	20 Reverse osmosis water desalination (ROWD) with renewable energy hybrid system in remote areas		2,400	Jordan	1997
	21 SALT-gradient solar pond pilot plant		633	Jordan	1997
	22 Solar and wind energy resources assessment and mapping		600	Mongolia	2001
	23 Solar energy desalination			Indonesia	1999
	24 Solar energy project for communities		115	Ghana	2001
	25 Solar energy: Batumi heat supply with solar energy		21,800	Egypt	1999
	26 Solar pilot project			Micronesia	1997
	27 Solar			Jordan	1997
	28 Subsidy programme for solar energy			Micronesia	1997
	29 Use of solar energy for water heating in the residential sector	73	3,900	Ecuador	2000
B.5.5.	End use/Description: Wind			Nigor	2000
	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	1	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 Installation of wind generators in Nouadhibou		4,150	Mauritania	2002
	6 Pilot project to generate electricity using wind		-, 3	Grenada	2000
	7 Substitution of thermic plants by a 25 MW wind energy unit	56 per year		Colombia	2001
	8 Technologies required for conduction of mitigation policy: electric and	, ,	11,000	Georgia	1999
	mechanical equipment for small hydro and wind power plants				

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	Project title	Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$1000)	Country	Year
	9 Use of eolian energy10 Wind energy11 Wind Power: 'Karenergo' wind power plant project		5000	Mexico Kazakhstan Georgia	1997 1998 1999
C. C.1. C.2.	Sector: Forest Subsector: Bioelectricity production from wasteland and degraded lands Subsector: Conservation forests 1 Activities implemented jointly: Río Cóndor carbon sequestration project			Chile	2000
	 Activities implemented jointly: SIF carbon sequestration project Carbon sequestration projects in Bahia Kino in Sonora and in forested areas of Ciapas 			Chile Mexico	2000 1997
	 Conservation and management of ecosystems in the Uraba zone Conservation of natural forests in the Tinigua and Macarena zones 	21,920 in 30 years 15,289 in 30 years	40.000	Colombia Colombia	2001 2001
	 Conservation of the biodiversity by the rehabilitation of arid and semi-arid areas in the Trarza region Controlling forest fires 		12,366	Mauritania Seychelles	2002
	8 Conversion of livestock farms to agroforestry systems in the Puerto Carreño zone	5,034 in 25 years		Colombia	2001
	9 Forest conservation and reforestation in the Medio Atrato zone	3,662 kilotonnes of carbon plus 194 kilotonnes of CO ₂		Colombia	2001
	 Forest conservation and reforestation in the Purace zone Forest conservation and reforestation in the Quindio zone Forest conservation in the Bucaramanga corporation's zone Forest conservation in the Guerrero zone 	24,531 in 30 years 9,146 in 30 years 7,408 in 25 years 1,316 kilotonnes of carbon		Colombia Colombia Colombia Colombia	2001 2001 2001 2001
	 14 Forestry: Tbilisi Dendrological Park restoration project 15 Protecting/managing forests in reserves and protected areas 16 Quantitative evaluation of the carbon sink potential of FSM ecosystems 17 Restoration and protection of the tropical humid forest in the area of Esperanza Verde, Rio San Juan 	Calbon	230	Georgia Seychelles Micronesia Nicaragua	1999 2000 1997 2001
	18 Three further projects in Oaxaca, Campeche and Monarc Butterfly Reserve			Mexico	1997

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	Project title	Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$1000)	Country	Year
C.3.	Subsector: Forest practices/goals	0.000		Dec	0004
	1 Afforestation with exotic species	9,900		Peru	2001
	2 Afforestation with indigenous species3 Coffee cultivation	4,300		Peru	2001
	3 Coffee cultivation 4 Control of deforestation			Peru Seychelles	2000
	5 Controlling commercial biomass harvest			Seychelles	2000
	-			•	2000
	6 Controlling outbreak of pests and invasive species	02.000 + 0		Seychelles	
	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 525 t C		Ecuador Ecuador	2000 2000
	12 Forestry plantations in the Bolivar area13 Forestry: 'Nabadkhevi' forest rehabilitation project	525 l C	270	Georgia	1999
	14 Forestry: aforestation 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	000	Ecuador	2000
	17 Hydrologic rehabilitation and carbon uptake for the sustainability of the coffee	12 (0		Nicaragua	2001
	production in the Matagalpa area			a.a.gaa	
	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 330,000 ha of forests		14,220	Mauritania	2002
	21 Management of forests in order to slow down deforestation rates			Chad	2001
	22 Management of natural resources in wet zones		25,900	Mauritania	2002
	23 Pijuayo for palmito		,	Peru	
	24 Prepare a database to a) quantify the role of forests, forest soils as reservoirs,			Sri Lanka	2000
	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				
	25 Private forestry project			Costa Rica	2000
	26 Promote planting of Pourghere to preserve vegetation, to maintain the fertility of	20/30 years		Niger	2000
	soils and to increase the sequestration of CO2				

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	Project title	Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$1000)	Country	Year
	27 Protected areas project			Costa Rica	2000
	28 Reforestation and management of plain and small catchment areas		2,205	Djibouti	2002
	29 Reforestation of 30,000 ha per year		,	Burundi	2001
	30 Reforestation of mountain regions		1,095	Djibouti	2002
	31 Reforestation of several areas using trees able to adapt to difficult ecological conditions		,	Chad	2001
	32 Reforestation programmes in Assaba, Gorgol, Brakna, Trarza, Guidimakha, Hodh el Gharbi, Hodh Chargui and Tagant		688	Mauritania	2002
	33 Rehabilitation of degraded forest areas		1,500	Ghana	2001
	34 Replication of a reforestation project in other regions of the country			Mali	2000
	35 Socio-economic development of rural communities in the Caribbean zone	3,818 in 25 years		Colombia	2001
	36 Support for the implementation of the Forestry Policy and Action Plan			Grenada	2000
	37 Supporting the reforestation master plan	7,147 equivalent in the period 2001- 2020		Morocco	2001
	38 Sustainable management of the Chachi native forest in the Cayapas river	30 t C		Ecuador	2000
	39 The use of remote sensing for monitoring forest cover changes and for establishing base-line data			Ghana	2001
C.4.	Subsector: Fuel wood conservation and substitution				
	1 Substitution of firewood by other energy resources			Chad	2001
C.5.	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

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	Project title	Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$1000)	Country	Year
	 9 Private forestry project 10 Protected areas project 11 Sequestration of CO₂: demonstration of carbon increase in forests. 12 Sequestration of CO₂: measurement of carbon sequestration in Chilean forests and promotion in a global carbon market 			Costa Rica Costa Rica Chile Chile	2000 2000 2000 2000
C.6. C.7.	Subsector: Substitution of sustainably grown wood for non-sustainably harvested Subsector: Use of recycled and more efficient wood products 1 Enhancement of the use of treatments for the better preservation of wood products	wood and for non-wo	od products	Burundi	2001
D. D.1.	Sector: Industrial Subsector: Cogeneration and thermal cascading 1 Cogeneration in sugarcane production 2 Cogeneration in the textile industry 3 Cogeneration project 4 Development of cogeneration 5 Gasification of sugarcane bagasse for energy generation	9 equivalent per year 4,002 equivalent in the period 2001-2020		Colombia Colombia Grenada Morocco Colombia	2001 2001 2000 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 2 Building and industrial building sectors: 6 projects 		13,000	Chile Uzbekistan	2000 1999

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	Project title	Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$1000)	Country	Year
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
	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
20	Improved energy efficiency in coke production	65 equivalent per year		Colombia	2001
21	Improved energy efficiency in juggery production	277 equivalent per		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

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Project title		Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$1000)	Country	Year
24 Integration of climate change topics in curricu	ula of technical studies			Grenada	2000
25 Modification of wet-type cement mills to dry-tindustry			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 t		6,000 equivalent in the period 2001- 2020		Morocco	2001
28 Programme/project to disseminate information energy, energy diversification and clean technology.	•			Grenada	2000
29 Project for the standardization and certification	on of industrial equipment			Grenada	2000
30 Project to build national consulting capacity in industrial sector	n energy and environment in the			Grenada	2000
31 Project to increase energy efficiency in Kaspi	cement plant		1,000	Georgia	1999
32 Research on agricultural by-products, vegeta sources of energy	ble oils and alcohol as alternative			Mali	2000
33 Set up energy education and extension servi	ces for industries			Seychelles	2000
34 Setting up of manufacturing facilities to produce computer chip and solar photovoltaic industri	•			Barbados	2001
35 Technological upgrading in cement industry				El Salvador	2000
36 Technologies required for conduction of mitig necessary for the Kaspi cement plant	pation policy: electric filters		500	Georgia	1999
37 Transfer of the first shift of ammonia product of methanol	on of PO navoiazot for production		2,500	Uzbekistan	1999
38 Updating technology of nitrate producing agg	regate at the Fergana PO "Azot"		30,000	Uzbekistan	1999
39 Updgrading of nitrate producing shop in Chira	chik PO 'Eletrohimprom'		20,000	Uzbekistan	1999
40 Use of humid phosphate instead of dry phosp	phate in the Jorf Lasfer plant	894 equivalent in the period 2001-2020		Morocco	2001
41 Use of more energy efficient and clean techn	ology in industries			Seychelles	2000
42 Use of renewable energy technologies in hot				Seychelles	2000
43 The use of solar distillation as a source of fre Male	sh water for the outer islands and			Maldives	2001

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	Project title	Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$1000)	Country	Year
D.5. D.6.	Subsector: Material recycling 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.7.	Subsector: Process improvements 1 Cement industry: conservation and preheating in pyroprocessing and			Lebanon	1999
	improvements in the grinding process				
	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
	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

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	Project title	Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$1000)	Country	Year
	15 Replacement of boilers in the industrial and tertiary sectors	450 equivalent in the period 2001-2020		Morocco	2001
E. E.1.	 16 Use of wastes as energy source and use of alternative materials to clinker in cement production Sector: Residential, Commercial and Institutional Buildings Subsector: Building equipment 			Costa Rica	2000
	Energy Saving in tertiary and residential sectorUse of solar energy for water heating in the residential sector	73	800 million FCFA 3,900	Burkina Faso Ecuador	2002 2000
E.1.1.	 End use/Description: Cooking Assessing small-scale hydropower potential and demonstration project in combination with dissemination of electric cook stove 			Lao People's Democratic Republic	2000
	 Assessment of emissions from kerosene stoves Developing project proposal for improved cooking stoves demonstration project 			Kiribati Lao People's Democratic Republic	1999 2000
	 Dissemination of ecological stoves in the Pacific Region of Nicaragua Improvement of carbonization techniques Improving carbonization efficiency Improving/promoting energy efficiency and conservation e.g. wide distribution of 		350	Nicaragua Burundi Mauritania Ethiopia	2001 2001 2002 2001
	 improved biomass and charcoal stoves Introduction of improved stoves Promoting biogas use for GHG emission reduction 			Ethiopia Lao People's Democratic Republic	2001 2000
	10 Promoting the use of butane 11 Promoting the use of improved stoves in rural and urban areas 12 Promoting the use of improved stoves 13 Promoting the use of kerosene as cooking fuel 14 Promotion and diffusion of improved ovens and practices to reduce the use of	70	5,250 400 70 400	Mauritania Burundi Mauritania Mauritania Ecuador	2002 2001 2002 2002 2000
	fuelwood 15 Recovery and use of sawing waste for briquette production			Burundi	2001

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	Project title	Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$1000)	Country	Year
	16 Substitution of fuel-wood in rural areas through promotion and use of residues			Botswana	2001
	17 Use of liquified pertroleum gas (LPG) for domestic cooking			Seychelles	2000
	18 Use of peat as cooking fuel		1,770	Mauritania	2002
	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 Connection of Nouakchott to the OMVS (Organisation pour Mise en Valeur du fleuve Sénégal) grid		10	Mauritania	2002
	3 Demand management and promotion of substitute energy sources			Senegal	1997
	4 Demonstration project to create a demand side management programme unit			Antigua and Barbuda	2001
	5 Development of a plan to decentralize electrification			Burundi	2001
	6 Development of a system for assessing potential mitigation options			Cuba	2001
	7 Electrification of the Vallée village		276	Mauritania	2002
	8 Energy audits for commercial and institutional buildings			Seychelles	2000
	9 Energy conservation program in the public sector			Grenada	2000
	10 Energy conservation programme			Barbados	2001
	11 Energy saving in governmental buildings		20	Mauritania	2002
	12 Establishment of a sustainable energy centre		2,000	Mongolia	2001
	13 Establishment of an educational campaign of rational use of energy			Honduras	2000
	14 Evaluation of the electricity generation system			Kiribati	1999
	15 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
	16 Financing the decentralization of rural electrification	604 equivalent in the period 2001-2020		Morocco	2001

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	Project title	Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$1000)	Country	Year
	17 Improvement of energy efficiency of buildings in Western Africa (Senegal and Cote d'Ivoire)		3500	Senegal	1997
	18 Improvements in building insulation		500	Mongolia	2001
	19 Incorporation of energy efficient measures and standards in building design			Seychelles	2000
	20 Information programme in efficient use of energy and energy diversification in the services sector			Grenada	2000
	21 Introduction of incentives for the substitution of electricity by renewable energy			Grenada	2000
	22 Investing in demand-side management in the electricity sector			Zimbabwe	1998
	23 Lower energy consumption through demand-side energy efficiency and conservation programmes and incentives			Mauritius	1999
	24 Programme of training and technical assistance for efficient use of energy			Grenada	2000
	25 Programme to conserve and efficiently use energy through seed fund			El Salvador	2000
	26 Providing the public with a menu of architectural designs for residential buildings that take advantage of natural lighting and cooling			Grenada	2000
	27 Rational use of energy in government buildings	350 equivalent in the period 2001-2020		Morocco	2001
	28 Reconstruction and improvement of small-size boiler houses		5,000	Mongolia	2001
	29 Reorganization of the information system in the energy sector		170	Djibouti	2002
	30 Residential and commercial energy efficiency building codes			Botswana	2001
	31 Setting rules for thermic building efficiency			Tunisia	2001
	32 Setting up of an energy efficient use and conservation extension service within the Energy Affairs Bureau			Seychelles	2000
	33 Sustainable management of the domestic energy sector		20,000	Haiti	2002
E.1.4.	 End use/Description: Heating Demonstration heating and cooling system implementation on the basis of environmentally safe heat pump equipment 		20	Armenia	1998
	Energy saving in district heating system improvement		814	Kazakhstan	1998
	3 Pilot project on heating and hot water supply		814	Kazakhstan	1998

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	Project title	Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$1000)	Country	Year
	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				
	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 People's Democratic	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 lighting13 Use of low-wattage and renewable energy technologies, such as, compact fluorescent lamp (CFL) and solar water heater (SWH)	•		Ethiopia Seychelles	2001 2000
E.1.6.	 End use/Description: Motors 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

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Project title	Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$1000)	Country	Year
	3,426 equivalent in the period 2001- 2020		Morocco	2001
 End use/Description: Refrigeration Certification of refrigerators 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. Use of energy efficient refrigerators and freezers 			Tunisia Sri Lanka Seychelles	2001 2000 2000
 End use/Description: Water heating Introduction of solar water-heat collectors (SWHC) into the energy system Pilot project on heating and hot water supply Removing barriers to energy efficiency in municipal heat and hot water supply Solar hot water supply demonstration system for the international post-trauma rehabilitation centre (IPTRC) 		814 211 200	Armenia Kazakhstan Georgia Armenia	1998 1998 1999 1998
 Subsector: Building thermal integrity Energy efficiency: building sector Enhancing thermal performance of building envelopes: capacity-building project Enhancing thermal performance of building envelopes: market-based programme Improvement of energy efficiency of buildings in Western Africa (Senegal and Cote d'Ivoire) 		3500	Lebanon Lebanon Lebanon Senegal	1999 1999 1999 1997
	End use/Description: Office equipment End use/Description: Other appliances 1 Promote the use of improved boilers in socioeconomic establishments (hammams, ovens) End use/Description: Refrigeration 1 Certification of refrigerators 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. 3 Use of energy efficient refrigerators and freezers Introduction of solar water-heat collectors (SWHC) into the energy system 2 Pilot project on heating and hot water supply 3 Removing barriers to energy efficiency in municipal heat and hot water supply 4 Solar hot water supply demonstration system for the international post-trauma rehabilitation centre (IPTRC) Subsector: Building thermal integrity 1 Energy efficiency: building sector 2 Enhancing thermal performance of building envelopes: capacity-building project 3 Enhancing thermal performance of building envelopes: market-based programme 4 Improvement of energy efficiency of buildings in Western Africa (Senegal and	End use/Description: Office equipment End use/Description: Other appliances 1 Promote the use of improved boilers in socioeconomic establishments (hammams, ovens) 5 Promote the use of improved boilers in socioeconomic establishments (hammams, ovens) 6 End use/Description: Refrigeration 7 Certification of refrigerators 8 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. 8 Use of energy efficient refrigerators and freezers 9 End use/Description: Water heating 1 Introduction of solar water-heat collectors (SWHC) into the energy system 2 Pilot project on heating and hot water supply 3 Removing barriers to energy efficiency in municipal heat and hot water supply 4 Solar hot water supply demonstration system for the international post-trauma rehabilitation centre (IPTRC) Subsector: Building thermal integrity 1 Energy efficiency: building sector 2 Enhancing thermal performance of building envelopes: capacity-building project 3 Enhancing thermal performance of building envelopes: market-based programme 4 Improvement of energy efficiency of buildings in Western Africa (Senegal and	End use/Description: Office equipment End use/Description: Other appliances 1 Promote the use of improved boilers in socioeconomic establishments (hammams, ovens) End use/Description: Refrigeration (hammams, ovens) 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. 3 Use of energy efficient refrigerators and freezers 1 End use/Description: Water heating 1 Introduction of solar water-heat collectors (SWHC) into the energy system 2 Pilot project on heating and hot water supply 3 Removing barriers to energy efficiency in municipal heat and hot water supply 4 Solar hot water supply demonstration system for the international post-trauma rehabilitation centre (IPTRC) Subsector: Building thermal integrity 1 Energy efficiency: building sector 2 Enhancing thermal performance of building envelopes: capacity-building project 3 Enhancing thermal performance of building envelopes: market-based programme 4 Improvement of energy efficiency of buildings in Western Africa (Senegal and	End use/Description: Office equipment End use/Description: Other appliances I Promote the use of improved boilers in socioeconomic establishments (hammams, ovens) 1 Certification of refrigerators 1 Certification of refrigerators 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. 3 Use of energy efficient refrigerators and freezers End use/Description: Water heating 1 Introduction of solar water-heat collectors (SWHC) into the energy system 2 Pilot project on heating and hot water supply 3 Removing barriers to energy efficiency in municipal heat and hot water supply 4 Solar hot water supply demonstration system for the international post-trauma rehabilitation centre (IPTRC) Subsector: Building thermal integrity 5 Energy efficiency: building sector 6 Enhancing thermal performance of building envelopes: capacity-building project 7 Enhancing thermal performance of building envelopes: market-based programme 8 Improvement of energy efficiency of buildings in Western Africa (Senegal and

F. Sector: Solid Waste and Wastewater Disposal

F.1. Subsector: Methane recovery

F.1.1. End use/Description: Solid waste disposal

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	Project title	Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$1000)	Country	Year
	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
	12 Waste management in Nouakchott village	59.97Gg in the period 2003 - 2010	12,593	Mauritania	2002
	13 Waste treatment and use of waste for energy production	82.62 equivalent CO ₂	15,160	Djibouti	2002
F.1.2.				0 1 11	0000
	1 Aerobic treatment of wastewater	0.04 (.011 /		Seychelles	2000
	Generation of electricity using natural gas from the Rio Azul Landfill	3.64 t CH₄/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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	Project title	Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$1000)	Country	Year
F.2.	Subsector: Source reduction 1 Collection and transportation of solid waste in major cities		9,000	Mongolia	2001
			9,000	Worlgona	2001
F.2.1.	 End use/Description: Composting Composting and Landfilling with Gas Recovery and Flaring Composting and landfilling with gas recovery and utilization Pilot production of biohumus by processing organic part of solid urban wastes and manure Promotion of composting for biogas production Recycling and composting of solid waste Recycling, reuse, composting and smart selection of materials for use 		65	Lebanon Lebanon Armenia Chad Seychelles Grenada	1999 1999 1998 2001 2000 2000
F.2.2.	End use/Description: IncinerationMunicipal and household sector: waste incinerating plant for Tashkent		45,000	Uzbekistan	1999
F.2.3.	 End use/Description: Recycling Pilot production of biohumus by processing organic part of solid urban wastes and manure Recycling and composting of solid waste Recycling, reuse, composting and smart selection of materials for use 		65	Armenia Seychelles Grenada	1998 2000 2000
G. G.1.	 Study of a problem of application of methane fermentation Sector: Transport Subsector: Alternative energy sources Integrated system for zero or reduced emission fuel cell bus operation in Cairo 		35	Armenia Egypt	1998 1999
	 Introduction of electric vehicles, trolleys and trains Natural gas vehicles (refuelling station and conversion kit) Producing hydrogen from renewable energy to power fuel cell vehicles, e.g. cars and buses Promote the use of gasohol (blending of ethanol with gasoline) for cars Promoting the use of fuels with low carbon content (fuel switching) Promotion of bicycle usage 		AUS\$32,800,000	El Salvador Indonesia Barbados Ethiopia Ethiopia El Salvador	2000 1999 2001 2001 2001 2000

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	Project title	Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$1000)	Country	Year
	8 Rapid public transport system utilising electric-powered vehicles			Mauritius	1999
G.2. G.2.1.	Subsector: Energy efficiency improvements End use/Description: Improve fleet management				
	Adopt an appropriate road pricing system			Sri Lanka	2000
	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 equivalent in the period 2001- 2020		Morocco	2001
	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

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	Project title	Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$1000)	Country	Year
	18 Promoting environmentally friendly transport modes such as bicycles19 Promotion of the use of smaller cars through tax differentiation based on engine			Ethiopia Ethiopia	2001 2001
	Size			Сипоріа	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
	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			Grenada	2000
	traffic flow through improved traffic signal timing and adopting measures to				
	encourage increased capacity utilization				
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 characterestics of engines and		460	Azerbaijan	2000
	quality of roads			•	
	8 Initiate a 'Clean Air Act'			Mauritius	1999
	9 Introduction of trade regulations, tariffs for fuel efficiency and domestic fuel			Grenada	2000
	taxes 10 Modernisation and Technical Upgrading of Vehicle Park			El Salvador	
	10 Modernisation and recitifical opyrading of vehicle rain			Li Jaivauui	

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	Project title	Estimated emission reduction/ sequestration (1000 mt CO ₂)	Cost (US\$1000)	Country	Year
	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 People's Democratic Republic	2000
	15 Road transport		2,000	Uzbekistan	1999
	16 Vehicle fuel efficiency improvement		900	Mongolia	2001
G.3.	Subsector: Infrastructure changes, modal shift and fleet management				
G.3.1.	·			0 (0'	0000
	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		400	Ethiopia	2001
	4 Improvements in motor fleet structure, technical characterestics 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 and 111.888 million	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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