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INTERGOVERNMENTAL NEGOTIATING COMMITTEE FOR A FRAMEWORK CONVENTION ON CLIMATE CHANGE Eighth session Geneva, 16-27 August 1993 Item 5 of the provisional agenda

ACTIVITIES OF THE UNITED NATIONS SYSTEM RELATED TO THE CONVENTION

<u>Information on activities related to the Convention received from United Nations entities and other international organizations</u>

Addendum

Note by the secretariat*

As indicated in paragraph 4 of document A/AC.237/39, this addendum presents to the Committee, in English only, the full information provided by organizations on their activities related to the Convention.

^{*} The information provided by the reporting entities is reproduced herein as submitted to the secretariat. Editorial changes have been made only where essential to clarity.

CONTENTS

	Page
<u>Organizations</u>	
United Nations Conference on Trade and Development (UNCTAD)	5
United Nations Environment Programme (UNEP)	9
United Nations Population Fund (UNFPA)	13
United Nations Institute for Training and Research (UNITAR)	17
United Nations University (UNU)	19
Economic Commission for Africa (ECA)	21
Economic and Social Commission for Asia and the Pacific (ESCAP)	23
Food and Agriculture Organization of the United Nations (FAO)	27
United Nations Educational, Scientific and Cultural Organization (UNESCO)	33
Intergovernmental Oceanographic Commission of UNESCO	37

A/AC.237/39/Add.1 English Page 3

	<u>Page</u>
<u>Organizations</u>	
International Civil Aviation Organization (ICAO)	43
World Health Organization (WHO)	45
World Meteorological Organization (WMO)	47
World Tourism Organization (WTO)	51
International Council of Scientific Unions (ICSU)	53
Organisation for Economic Co-operation and Development	54
(OECD) / International Energy Agency (IEA)	55
United Nations Development Programme (UNDP)	59
World Bank	63

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UNITED NATIONS CONFERENCE ON TRADE AND DEVELOPMENT (UNCTAD)

1. Organization: United Nations Conference on Trade and

Development (UNCTAD)

3. Short Description: A study on new mechanisms for joint implementation

Joint implementation

of commitments utilising tradeable carbon emission

entitlements.

4. <u>Purpose/Objectives</u>: To improve knowledge of possible economic

instruments to reduce global warming.

5. Scope: Global

6. <u>Cooperating Organizations</u>:

Title of Activity:

2.

7. Duration: 4 months

8. Approx. Cost (US\$): 30,000

9. Source of Funding: Government of Germany

10. Relation to Convention

(Subject Code):

J01, M01

1. Organization: United Nations Conference on Trade and

Development (UNCTAD)

2. <u>Title of Activity</u>: Tradeable permits

3. Short Description: A study on the costs and benefits of a global system of

tradeable carbon emission entitlements: an analysis by

country categories

1. low-income countries:

2. newly-industrialising countries;

3. energy (fossil fuel) exporting developing countries;

4. industrialised countries

(Subject Code):

4. Purpose/Objectives: To improve knowledge of possible economic instruments to reduce global warming. 5. Scope: Global 6. **Cooperating Organizations:** 7. **Duration**: 3 months 8. Approx. Cost (US\$): 40,000 9. Source of Funding: Government of Germany 10. Relation to Convention (Subject Code): J01, E01, M01 1. Organization: United Nations Conference on Trade and Development (UNCTAD) 2. Title of Activity: Tradeable permits: design requirements 3. **Short Description:** A study on essential design requirements of a global system of tradeable carbon emission entitlements. 4. Purpose/Objectives: To improve knowledge of possible economic instruments to reduce global warming. 5. Scope: Global **Cooperating Organizations:** 6. 7. **Duration**: 3 months 8. Approx. Cost (US\$): 40,000 9. Source of Funding: Government of Norway 10. Relation to Convention

J01, M01

United Nations Conference on Trade and 1. Organization: Development (UNCTAD) CO2 Emissions Market 2. Title of Activity: A study on model rules and regulations for a global 3. **Short Description:** CO2 emissions market. To improve knowledge of possible economic 4. Purpose/Objectives: instruments to reduce global warming. Global 5. Scope: 6. **Cooperating Organizations:** 3 months 7. **Duration**: 40,000 8. Approx. Cost (US\$): 9. Source of Funding: Government of Norway Relation to Convention J01, M01 10. (Subject Code): 1. Organization: United Nations Conference on Trade and Development (UNCTAD) 2. Title of Activity: Environmental value-added tax 3. **Short Description:** A study on the conceptual issues involved in the design of a global environmental value-added tax (EVAT) and their international implications. Purpose/Objectives: To improve knowledge of possible economic 4. instruments to reduce global warming. Global 5. Scope: 6. **Cooperating Organizations:**

4 months

7.

Duration:

A/AC.237/39/Add.1 English Page 8

 Approx. Cost (US\$): 50,000
 Source of Funding: Unfunded
 Relation to Convention (Subject Code): J01, M01

UNITED NATIONS ENVIRONMENT PROGRAMME (UNEP)

1. Organization: United Nations Environment Program	me (UNEP)
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2. <u>Title of Activity</u>: Country case studies on sources and sinks of

greenhouse gases

3. Short Description: Support to OECD Environment Directorate and IPCC

Working Group I for GHG inventory methodology development. Testing methodology in a series of 11 country studies. Also pan-Amazonia sub-project on

rain forest monitoring.

4. Purpose/Objectives: Testing of IPCC methodology in ll country case studies.

5. <u>Scope</u>: Global

6. Cooperating Organizations: OECD, IPCC, INPE

7. <u>Duration</u>: 01.09.92 - 31.07.94

8. Approx. Cost (US\$): 4.7 Million

9. Source of Funding: GEF

10. Relation to Convention:

(Subject Code):

B01, B03

1. Organization: United Nations Environment Programme (UNEP)

2. <u>Title of Activity:</u> Greenhouse gas abatement costing studies

3. Short Description: Review of the subject of abatement costing pilot

country studies and development of a methodology.

4. <u>Purpose/Objectives</u>: Preparation of a methodology to undertake national

greenhouse gas abatement costing studies.

5. <u>Scope</u>: Global

6. <u>Cooperating Organizations</u>: RISO, TATA

7. Duration: November 1991 - June 1993

5.

Scope:

8. Approx. Cost (US\$): 1 Million 9. Source of Funding: **Environment Fund** 10. Relation to Convention (Subject Code): E01 1. Organization: United Nations Environment Programme (UNEP) 2. Title of Activity: Climate Change and Global Agricultural Potential 3. **Short Description:** Develop and test a methodology and MAP potential agricultural productivity in a pilot study for Bangladesh. Purpose/Objectives: Improve methodologies for assessing potential impacts 4. of climate change on agricultural productive capacity. 5. Scope: Global/National **Cooperating Organizations:** 6. FAO, ECU, IIASA 7. **Duration**: 1993/1994 8. Approx. Cost (US\$): 500,000 9. Source of Funding: **Environment Fund** 10. Relation to Convention (Subject Code): F03, G04 1. Organization: United Nations Environment Programme (UNEP) Title of Activity: 2. Support to IPCC **Short Description:** 3. Provision of staff and financial resources for ongoing activities of IPCC. 4. Purpose/Objectives: Assessment of causes, effects and response options related to climate change

Global

6. Cooperating Organizations: WMO

7. <u>Duration</u>: January 1989 - December 1993

8. Approx. Cost (US\$): 1,524,000

9. Source of Funding: Environment Fund

10. Relation to Convention
(Subject Code): L01, MO1

1. Organization: United Nations Environment Programme (UNEP)

2. <u>Title of Activity</u>: WCIRP

3. Short Description: Assessment of the impacts of climate variability and

change on people and their environment.

4. <u>Purpose/Objectives</u>: Reduce vulnerability of socio-economic sectors to

climate variability and change.

5. Scope: Global

6. Cooperating Organizations: WMO

7. Duration: May 1987 - December 1993

8. Approx. Cost (US\$): 4 million

9. Source of Funding: Environment Fund

10. Relation to Convention

(Subject Code): C01, D01, F01, F02, F03, F04

1. Organization: United Nations Environment Programme (UNEP)

2. <u>Title of Activity</u>: IUCC

3. Short Description: Preparation of films; fact sheets and other information

material; seminars, particularly in developing

countries.

4. Purpose/Objectives: Dissemination of information related to climate change. 5. Scope: Global 6. **Cooperating Organizations:** WMO 7. **Duration**: Since July 1991 8. Approx. Cost (US\$): 1 Million 9. Source of Funding: Environment Fund, Governments 10. Relation to Convention (Subject Code): K01 1. Organization: United Nations Environment Programme (UNEP) 2. Title of Activity: Country study report 3. **Short Description:** To collect information on climate-related studies undertaken by governments, scientific bodies and interested organizations. 4. Purpose/Objectives: To provide the information to those who need it. 5. Scope: Global 6. **Cooperating Organizations: IPCC** 7. Duration: 8. Approx. Cost (US\$): 9. Source of Funding: 10. Relation to Convention **A**01 (Subject Code):

UNITED NATIONS POPULATION FUND (UNFPA)

1. Organization: United Nations Population Fund (UNFPA)

2. Title of Activity: Impact assessment population pressure, poverty and

environmentally endangered zones

3. Short Description: Poverty and high population growth and density

interact with environmental degradation and vice versa. The determination of the nature and impact of this interaction will contribute to the determination of the

impact of climatic change.

4. Purpose/Objectives: To integrate population factors in environmental and

developmental planning and policies.

5. Scope: Global/Regional/National

6. Cooperating Organizations: To be determined

7. <u>Duration</u>: 5 - 6 years

8. Approx. Cost (US\$): 10 million

9. Source of Funding: Multilateral/bilateral

10. Relation to Convention

(Subject Code): COI

1. Organization: United Nations Population Fund (UNFPA)

2. <u>Title of Activity</u>: Impact assessment: population pressure, poverty and

environmentally endangered zones

3. Short Description: The analysis of the interaction between population

growth and density, poverty and environmental degradation is a necessary first step in the assessment

of the socio-economic impact of this interaction

4. Purpose/Objectives: To integrate population factors in environmental and

developmental planning and policies

5. Scope: Global/Regional/National

6. Cooperating Organizations: To be determined

Organization:

Title of Activity:

1.

2.

7.	Duration:	5 - 6 years
8.	Approx.Cost (US\$):	10 million
9.	Source of Funding:	Multilateral/bilateral
10.	Relation to Convention (Subject Code):	D01
1.	Organization:	United Nations Population Fund (UNFPA)
2.	Title of Activity:	Population, environment and climatic change in the South Pacific
3.	Short Description:	To promote awareness of the links between population and environmental degradation among policy makers, planners and at the community level in the South Pacific.
4.	Purpose/Objective:	The integration of population factors in all environmental and socio-economic planning in the South Pacific.
5.	Scope:	Regional/National
6.	Cooperating Organizations:	South Pacific Regional Environment Programme (SPREP)
7.	Duration:	Four years
8.	Approx. Cost (US\$):	
9.	Source of Funding:	UNFPA
10.	Relation to Convention Subject Code):	K0I
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United Nations Population Fund (UNFPA)

Population, environment and climatic change in the South Pacific

3. Short Description:

Increase the capacities of the states of the South Pacific in the field of demographic and population analysis in order to enable them to utilise these skills in environmental and socio-economic planning.

4. Purpose/Objectives:

The integration of population factors in all environmental and socio-economic planning in the Pacific.

5. Scope:

Regional/National

6. Cooperating Organizations:

South Pacific Regional Environmental Programme

(SPREP)

7. <u>Duration</u>:

Four years

8. Approx. Cost (US\$):

9. Source of Funding:

UNFPA

10. Relation to Convention (Subject Code):

M01

INTERGOVERNMENTAL NEGOTIATING COMMITTEE FOR FRAMEWORK CONVENTION ON CLIMATE CHANGE (INC/FCCC) AND

UNITED NATIONS INSTITUTE FOR TRAINING AND RESEARCH (UNITAR)

1. Organization: Intergovernmental Negotiating Committee for

Framework Convention on Climate Change

(INC/FCCC) and United Nations Institute for Training

and Research (UNITAR)

2. <u>Title of Activity</u>: Information and Training Programme to Promote the

Implementation of the United Nations Framework

Convention on Climate Change.

3. Short Description: The programme has been developed by the INC/FCCC

and UNITAR in collaboration with UNDP, GEF and

the IPCC secretariat. It aims to promote the

implementation of the Convention through ongoing information collection and dissemination, national workshops and follow-up processes. The twelve-month Pilot Phase will begin in the fall of 1993 and involve three countries of Southeast Asia, Africa and the

Baltics, respectively.

4. <u>Purpose/Objectives</u>: To provide information on the Convention and to

promote national dialogue at the policy level on the provisions of the Convention as input into future capacity-building, policy formulation and national

and/or regional cooperation.

5. Scope: Global, developing countries and economies in

transition

6. Cooperating Organizations: INC/FCCC and UNITAR in collaboration with UNDP,

GEF and the IPCC secretariat

7. Duration: Initial twelve-month Pilot Phase (tentatively 8/93-8/94)

preceded by a two month preparatory phase

(June-August 1993)

8. Approx. Cost (US\$): Pilot Phase: \$900,000

9. Source of Funding: Global Environment Facility implemented by UNDP

10. Relation to Convention K01

(Subject Code):

THE UNITED NATIONS UNIVERSITY (UNU)

l. Organization:

The United Nations University (UNU)

2. <u>Title of Activity</u>:

Greenhouse Gas Indices and International Policy Making

3. Short Description:

The project carried out research on greenhouse indices, related international policy-making and governance, and the necessary North-South resource transfers. The main output of the project will be a book entitled <u>Global Greenhouse Regime</u>: <u>Who Pays?</u> edited by Peter Hayes and Kirk R. Smith to be jointly published by the United Nations University Press and Earthscan in July 1993.

4. Purpose/Objectives:

The project is aimed at filling the existing knowledge gap relating to the amounts and sources of the greenhouse gases emitted from the various countries and regions, both industrialized and developing, and their relation to international governance, and laying the basis for negotiations after UNCED.

5. Scope:

Global

6. Cooperating Organizations:

East-West Center, Hawaii, USA, and Nautilus Pacific Research Inc., Australia. In addition, many scholars from all major regions of the world contributed to the research.

7. Duration:

January 1991 - July 1993

8. Approx. Cost (US\$):

67,000

9. Source of Funding:

UNU (U\$\$30,750), Nautilus Pacific Research

(US\$25,000), East-West Center (US\$11,250)

10. Relation to Convention

(Subject Code):

B02

ECONOMIC COMMISSION FOR AFRICA (ECA)

l. Organization: Economic Commission for Africa (ECA)

2. <u>Title of Activity</u>: African Centre of Meteorological Applications for

Development (ACMAD)

3. Short Description: The immediate objectives are: investigating the effects of

drought, cyclones and other extreme phenomena: promoting the development of the applications of meteorological data and information to the individual and collective solution of environmental problems thought better understanding of the anomalies of weather and

climate in Africa.

4. <u>Purpose/Objectives</u>:

5. <u>Scope</u>: <u>Regional</u>: Africa

6. Cooperating Organizations: WHO, UNEP, FAO, National Meteorological and

Hydrological Services

7. <u>Duration</u>: Continuous

8. Approx. Cost (US\$):

9. Source of Funding: ECA member States, UNEP, WMO, FAO

10. Relation to Convention

(Subject Code): AO1, CO1, DO1, KO1, LO1

ECONOMIC AND SOCIAL COMMISSION FOR ASIA AND THE PACIFIC (ESCAP)

l. Organization:

Economic and Social Commission for Asia and the Pacific (ESCAP)

2. <u>Title of Activity</u>:

Second Asia-Pacific Seminar on Climate Change Bangkok, 29 - 31 March 1993

3. Short Description:

The seminar was organized in cooperation with the Asian Development Bank (ADB) within the framework of ADB's Regional Study on Global Environmental Issues.

4. Purpose/Objectives:

- a. To present and discuss the state of the art on the assessment of climate change implications at regional level.
- b. To present preliminary findings of eight country studies, carried out within the context of ADB's Regional Study, on the assessment of climate change implications at national level and of available mitigation and adaptation options for developing national response policies.
- c. To present further national reports from countries of the region.
- d. To develop elements for a regional strategy to cope with climate change, encompassing:
 - * strengthening of research, impact assessment and monitoring;
 - * developing emission inventories;
 - * building climate consideration into longrange planning:
 - * identifying most cost-effective means for reducing emissions and enhancing sinks;
 - * ensuring adequate funds to support mitigation and adaptation policies;
 - * institutional strengthening and improving of regional and international cooperation.

5. Scope:

Regional

6. <u>Cooperating Organizations</u>:

Asian Development Bank

7. <u>Duration</u>:

3 days

8. Approx. Cost (US\$):

US\$ 75000

9. Source of Funding:

Asian Development Bank

10. Relation to Convention (Subject code):

A01, B02, B03, B05, C01, D01, E01, F01, F02, F03, F04, G01, G02, G03, G04, G05, G06, G07, I01, J01, K01, M01.

l. <u>Organization</u>:

Economic and Social Commission for Asia and the Pacific (ESCAP)

2. <u>Title of Activity</u>:

Regional Cooperation on Global Climate Change

3. Short Description:

The following activities are being undertaken:

- 1. Developing a regional network of national focal points among research and decision-making institutions involved with climate change issues.
- 2. Developing a Regional Strategy to cope with climate change.
- 3. Participating in major international meetings on research and negotiations related to the Framework Convention on Climate Change.
- 4. Organization of a Regional Conference on Climate Change.
- 5. Promoting of follow-up activities to Agenda 21.

The current phase involves the holding of two consultative meetings at Bangkok with the participation of experts from selected countries:

20 - 22 July 1993: Development of a Regional Strategy on Climate Change.

30 Sept. - 2 Oct. 93: Development of the Terms of Reference for a Regional Network on Climate Change.

- 4. Purpose/Objectives:
- 1. Promoting international cooperation among countries of the ESCAP region through information exchange and consultation on scientific and policy issues related to climate change, within the context of global negotiations

on the Framework Convention on Climate Change.

- 2. To develop a network of research and decision-making institutions based on data gathering and information exchange mechanisms.
- 3. To strengthen national capabilities and coordinate regional research activities on climate change issues, the assessment of environmental and socioeconomic impacts and the evaluation of mitigation and adaptation policies.
- 4. To develop a regional strategy involving the dissemination of methodologies for compiling emissions and sinks inventories; the promotion of mitigation policies aimed at curbing emissions and enhancing sinks of greenhouse gases; ensuring technical and financial support for adaptation policies in relevant sectors, such as energy, agriculture, coastal zone management, industry, transport, forestry, water resources and disaster prevention.

5. Scope:

Regional

- 6. Cooperating Organizations:
- 7. Duration:

2 years

8. Approx. Cost (US\$):

US\$ 155,000

9. Source of Funding:

Government of Japan

10. Relation to Convention (Subject Code):

A01, B02, B03, B05, C01, D0l, E0l, F0l, F02, F03, F04, G0l, G02, G03, F04, G05, G06, G07, H0l, I0l, J0l, K0l, L0l, M01.

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO)

l. Organization: Food and Agriculture Organization of the United Nations (FAO)

2. <u>Title of Activity</u>: Expert Consultation on "Global Climatic Change and Agricultural Production": direct effects of changing hydrological and plant physiological processes.

3. <u>Short Description</u>: A meeting, mid-December 1993, in Rome, bringing together about 25 invited experts and land-use planning specialists.

4. <u>Purpose/Objectives</u>: Analyse and assess the effect of higher CO2, UV-B and tropospheric ozone, higher temperatures and changing rainfall/evapotranspiration ratios on food production in developing countries.

5. Scope: Mainly developing countries

6. <u>Cooperating Organizations</u>: None

7. <u>Duration</u>: 1 week

8. <u>Approx. Cost (US\$)</u>: 140.000

3.

4.

9. Source of Funding: Mainly FAO, with some bilateral inputs

10. Relation to Convention
(Subject Code): CO1, FO2, FO3

l. Organization: Food and Agriculture Organization of the United Nations (FAO)

2. <u>Title of Activity</u>: Interdepartmental Working Group on Environment and Sustainable Development, sub-group on Climate Change.

Short Description:

A technical group composed of 13 members belonging to the Departments of Agriculture, Fisheries, Forestry, Economic and Social Policy, and the legal office.

Purpose/Objectives:

(i) to provide a co-ordination mechanism for climate change-related work within FAO;

(ii) to provide a forum for assessing internal and external work on climate change and its

implication for FAO's Regular and Field Programmes;

- (iii) to formulate recommendations for FAO's Programme of Work and Budget;
- (iv) to assist in the clearance of IPCC and other UN documents related to climate change and its potential impact on agriculture, forestry and fisheries:
- (v) to revise and elaborate FAO Position Papers on Climate Change.

5. Scope:

Global

6. Cooperating Organizations:

None

7. Duration:

The Group was created in 1988.

8. Approx. Cost (US\$):

200,000 p.a.

9. Source of Funding:

FAO

10. Relation to Convention (Subject Code):

I01, K01, M01

l. Organization:

Food and Agriculture Organization of the United Nations (FAO)

2. <u>Title of Activity</u>:

Expert consultation on "Biofuels as a sustainable substitute for fossil fuels"

3. Short Description:

A meeting of about 20 experts to be held in Rome during mid-1993.

4. <u>Purpose/Objectives</u>:

The expert consultation will examine the following points:

- (i) the agronomic feasibility of biofuels (identification of the most suitable species, irrigation requirements, environmental impacts of wastes, etc.);
- (ii) the economic feasibility of biofuels, which depends on the price of fossil fuels. Many countries have been spending a sizeable fraction of their

agricultural export earnings to import fossil fuels. It may be more economical to produce liquid fuel from locally grown biomass;

- (iii) the socio-economic feasibility (income generation in rural areas, competition with food crops, etc.);
- (iv) the technology feasibility of current bioenergy conversion processes, including fermentation, combustion, gasification and pyrolysis, with emphasis on the quantitative aspects;
- (v) the institutional feasibility (e.g., the effects of existing legislation on restricting or encouraging biofuel generation and utilization, credit facilities available to assist investments and research needs and training).

5. Scope:

Global, with emphasis on developing countries.

6. <u>Cooperating Organizations</u>:

None

7. Duration:

1 week

8. Approx. Cost (US\$):

100,000

9. Source of Funding:

FAO

10. Relation to Convention (Subject Code):

EO1, G01, G04, G05, H01, I01, K01

l. <u>Organization</u>:

Food and Agriculture Organization of the United Nations (FAO)

2. <u>Title of Activity</u>:

AMDASS, FAO Agrometeorological data systems

3. <u>Short Description</u>:

A world-wide agroclimatic data base covering about 16500 stations, with:

(i) monthly normals for 11 elements (observed, such as rainfall, temperatures, or calculated, such as potential evapotranspiration or night-time temperature);

		(ii) long-term historical monthly rainfall and temperature series;
÷		(iii) 10-daily near real-time precipitation data covering west, east and south Africa.
4.	Purpose/Objectives:	Source of data for land-use and suitability studies; near real-time impact assessment in Africa (Early Warning).
5.	Scope:	World-wide for monthly data; Africa for 10-daily ones
6.	Cooperating Organizations:	None, but data are obtained though contacts with a number of organizations
7.	<u>Duration</u> :	The activity started in 1975.
8.	Approx. Cost (US\$):	150,000 p.a.
9.	Source of Funding:	FAO, some bilateral inputs.
10.	Relation to Convention (Subject Code):	A01, C01
1.	Organization:	Food and Agriculture Organization of the United Nations (FAO)
2.	Title of Activity:	Tropical Forest Action Programme (TFAP) and Global Forest Resources Assessment (GFRA)
3.	Short Description:	A concerted effort of the international community to help tropical countries formulate and implement strategies for the conservation and sustainable development of their forests.
4.	Purpose/Objectives:	"A tool or strategy that developing countries can use to turn the tropical forest crisis into a development opportunity".
5.	Scope:	Tropical countries (currently 38 in Africa, 20 in Asia/Pacific and 32 in Latin America/Caribbean
6.	Cooperating Organizations:	None, but support received from 20 bilateral donors, the four major development banks and 16 non-governmental and intergovernmental organizations. For GRFA, forest resources in developed countries are carried out jointly with ECE.

7. **Duration**: Started in 1985 8. External financial support to National Forestry action Approx. Cost (US\$): plans amounts to approx. 2,300 MUS\$ (2.3 billion US\$), i.e. approx. 330 MUS\$ p.a. 9. See above, "cooperating agencies" Source of Funding: Relation to Convention 10. (Subject Code): G05, IO1, M01 Organization: Food and Agriculture Organization of the United Nations 1. (FAO) 2. Title of Activity: Effect of climate change on population supporting capacities 3. **Short Description:** An activity coordinated by the Land and Water Development Division under the aegis of the FAO interdepartmental sub-group on climate change, jointly with the Environmental Change Unit (Univ. Oxford) and UNEP. 4. Purpose/Objectives: Using global circulation model outputs, assess the effect which global change will have on human food supply,

5. Scope: Global

6. **Cooperating Organizations:** UNEP, ECU

development.

7. **Duration**:

2 years, starting late 1993

including geographic variations thereof. Methodology

8. Approx. Cost (US\$): 600,000

9. Source of Funding: UNEP, FAO

10. Relation to Convention

(Subject Code):

C01, D01

1. Organization: Food and Agriculture C

Food and Agriculture Organization of the United Nations

(FAO)

2. <u>Title of Activity</u>:

Land-use data base development (Interdepartmental

Working Group on Land-Use Planning).

3. Short Description:

Development of criteria and a hierarchical system of actual land uses, including social and economic aspects.

4. Purpose/Objectives:

Application of the system in individual countries through national entities, and generation of a global fully georeferenced data base on land uses, linked to countrylevel statistical and census data; for monitoring and modelling purposes, and as a tool for assessment of national and global net greenhouse emissions from rural

sources.

5. Scope:

Developing countries and global

6. Cooperating Organizations:

UNEP

7. <u>Duration</u>:

Several years

8. Approx. Cost (US\$):

(methodological aspects only) 200,000

9. Source of Funding:

FAO, UNEP, Bilateral

10. Relation to Convention

(Subject Code):

A01, B01, B05

UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION (UNESCO)

l. Organization: United Nations Educational, Scientific and Cultural

Organization (UNESCO)

2. <u>Title of Activity</u>: International Environmental Education Programme

(IEEP) (UNESCO/UNEP)

3. Short Description: Promotes the introduction of environmental education

and information at all levels of formal and non-formal

education.

4. <u>Purpose/Objectives</u>: Education and information on climate change has been

included increasingly in the IEEP activities.

5. <u>Scope</u>:

6. Cooperating Organizations: UNEP

7. <u>Duration</u>: Ongoing since 1975 to be continued in 1994-1995

8. Approx. Cost (US\$): UNESCO \$1,200,000 for 1994-1995

9. Source of Funding: Regular budget

10. Relation to Convention

(Subject Code): K01

l. Organization: United Nations Educational, Scientific and Cultural

Organization (UNESCO)

2. <u>Title of Activity</u>: Contributing to the Global Terrestrial Observing System

(GTOS)

3. Short Description: Establishment and maintenance of an effective network

of 50-100 sites integrated into a regional and global information system on global change. The science plan for GTOS is being elaborated in 1993-1994 by a task force led by IGBP-GTCE, building on the recommendations of an IGBP/UNESCO/OSS workshop held in Fontainebleau in July 1992 (report published by

UNESCO in 1993).

Purpose/Objectives: To develop an integrated multi-scale system for detecting 4. and monitoring terrestrial responses to global change.

5. Global Scope:

Cooperating Organizations: IGBP-GCTE, START, UNEP, FAO, WMO, OSS, etc. 6.

7. **Duration**: Planning - 1992-95; operational phase open ended.

Approx. Cost (US\$): Planning phase - circa \$500.000 per year. Operational 8.

phase: circa \$12-24 million per year.

9. Source of Funding: Funds to be sought

Relation to Convention 10. (Subject Code): L01

United Nations Educational, Scientific and Cultural 1. Organization: Organization UNESCO H-1.1: International Hydrological Programme 2. Title of Activity: i) (IHP) Review of the scientific aspects of the interface processes of water transport through the atmosphere-vegetation-soil system. H-2.1: Study of the relationship between climate ii) variability (and expected changes) & hydrologic regimes affecting water balance components. H-1.1: The project is connected with terrestrial-3. **Short Description:** i) atmospheric interactions of water transfer at different scales. H-2.1: Various climatic scenarios are considered ii) in terms of their impact on the hydrological cycle. 4. Purpose/Objectives: H-1.1: To improve understanding of the surface i) hydrology for input into AGCMs. H-2.1: To provide information on water resource ii) management issues connected with climatic change. 5. Global Scope: 6. **Cooperating Organizations:** IGBP/WCRP Indefinite 7. **Duration**: \$40,000 plus, over 2 years (coordination costs only) 8. Approx. Cost (US\$): 9. **UNESCO Programme Funds** Source of Funding: 10. Relation to Convention H-I.1: LO1 (Subject Code): H-2.1: CO1/F02

INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION OF UNESCO (IOC)

1.	Organization:	Intergovernmental UNESCO (IOC)	Oceanographic	Commission	of

2. <u>Title of Activity</u>: Coastal Zone Observations of parameters relevant to assessment of impact of climate change on coastal areas.

Development of coastal zone systematic and adequate observations, related training in observations, maintenance, analysis, evaluations and planning; with establishment of long-term baseline stations, beach profiling, sedimentary budgets, coastal erosion evaluations, sea level and wave conditions.

Establishment of capabilities to install, monitoring and apply tested and proven scientific observations and methods for systematic observations of conditions in the coastal ocean, and its uses in relation to climate variability and other changes for assessment and management.

5. <u>Scope</u>: Regional

Short Description:

Purpose/Objectives:

3.

4.

6. <u>Cooperating Organizations</u>: WMO, UNEP, IUCN, regional bodies, donors

7. <u>Duration</u>: Indefinite

8. Approx. Cost (US\$): Present International Funding 300-500 kUS\$/year; not sufficient for coverage

9. <u>Source of Funding</u>: Donors and member States.

10. Relation to Convention C01, F01, L01, M01 (Subject Code):

l. Organization: Intergovernmental Oceanographic Commission of UNESCO (IOC)

2. <u>Title of Activity</u>: Assessments of impacts on coastal zones and sea level rise

3. <u>Short Description</u>: Evaluation on a regional basis of impacts of climate change and variability on coastal areas, including sea level observations (GLOSS) other regional oceanographic

8.

Approx. Cost (US\$):

data sources, and monitoring programmes. 4. Purpose/Objectives: To develop and maintain regional ocean and ecosystem observations, (e.g. coral reefs, circulation, sea level) establish cooperation and networks and ensure regular evaluations of changes and related potential impacts for decisions making, with related training, capacity-building; awareness creation. 5. Scope: Global, regional and national 6. **Cooperating Organizations:** UNEP, IUCN, WMO 7. **Duration**: Several projects are initiated for a period of some years after which evaluation is planned 8. Approx. Cost (US\$): US\$ Internationally available funds not fully sufficient, about 100-200k US\$/biennium 9. Source of Funding: National and international and catalytic international. 10. Relation to Convention C01, K01, L01, M01 (Subject Code): 1. Organization: Intergovernmental Oceanographic Commission of UNESCO (IOC) 2. Title of Activity: Ocean role in Carbon budget 3. **Short Description:** Research and observations of CO2 in the ocean and related valuations and modelling for understanding of dominating processes. 4. Purpose/Objectives: To reduce the uncertainties in relation to forecasting of CO2 variations and increases on the role of the ocean therein, as well as in related biogeochemical processes, as a response also to Agenda 21 (chapter 17). 5. Scope: Global and regional 6. Cooperating Organizations: ICSU, SCOR 7. **Duration**: 3 - 6 years

US\$/year

US\$ International catalytic funds from IOC about 100k

9.	Source of Funding:	Donors, member States
10.	Relation to Convention (Subject Code):	B04, B05, L01
1.	Organization:	Intergovernmental Oceanographic Commission of UNESCO (IOC)
2.	Title of Activity:	Research and systematic ocean observations to quantify the role of the ocean in the climate system, in particular as a source or sink for greenhouse gases
3.	Short Description:	To promote marine science investigations and related ocean services through concerted actions of its 122 member States, including related capacity-building.
4.	Purpose/Objectives:	to develop the Global Ocean Observing System (GOOS) and its module for climate monitoring, assessment and prediction and its module for monitoring the coastal zone environment and its changes.
5.	Scope:	Global and regional
6.	Cooperating Organizations:	ICSU, WMO and UNEP
7.	<u>Duration</u> :	GOOS Planning and Design Phase started - fully operational GOOS is expected by about the year 2007
8.	Approx. Cost (US\$):	
9.	Source of Funding:	
10.	Relation to Convention (Subject Code):	B04, B05, C01, F01, K01, L01, M01
1.	Organization:	Intergovernmental Oceanographic Commission of UNESCO (IOC)
2.	Title of Activity:	Technical/international Cooperation
3.	Short Description:	Through the inter-Secretariat Committee on Scientific Programmes relating to Oceanography (ICSPRO), which FAO, WMO, IMO, UN and UNEP are currently

3. **Short Description:**

Through the inter-Secretariat Committee on Scientific Programmes relating to Oceanography (ICSPRO), which FAO, WMO, IMO, UN and UNEP are currently participating in, IOC cooperates to implement scientific research and related service programmes at the global level. In addition IOC cooperates with various regional intergovernmental and national organizations as well as NGO's for implementation of scientific and technical projects, especially training related projects

4. Purpose/Objectives: To assist IOC member States in development of their capabilities in marine scientific research and related service operations through cooperative projects on regional and national basis

5. Scope:

"Regional" and "National" basis

6. **Cooperating Organizations:** UN Agencies: Regional Org:

FAO, WMO, UN, UNEP

SPREP, SOPAC, CCOP.

ROPME, IOMAC National Org.:

SAREC, DANIDA, BMTF

(Germany), NOAA (USA), NERC

(UR), JODC (Japan),

Univ. Tokyo (Japan), NTO (India)

ICSU, SCOR, ECOR, SCAR,

TAPSO, AESTM

7. **Duration**:

8. Approx. Cost (US\$):

9. Source of Funding:

10. Relation to Convention (Subject Code):

M01

NGOs:

1. Organization:

Intergovernmental Oceanographic Commission of UNESCO (IOC)

2. Title of Activity:

Programme on Training, Education and Mutual Assistance in Marine Sciences (TEMA)

3. **Short Description:**

The Programme plays a catalytic role to stimulate and coordinate specific activities related to capacity-building

3. Short Description:

The Programme plays a catalytic role to stimulate and coordinate specific activities related to capacity-building of IOC member States, with collaboration of the Commission's subsidiary programme groups in ocean research, systematic observation and services, as well as marine pollution monitoring. The assistance includes:

- (i) providing short and long-term training opportunities and assistance to participate in international meetings to scientists from developing countries;
- (ii) organizing a series of public lectures on specific topics of marine sciences and to produce audiovisual aid for public awareness of marine science and related matters:
- (iii) arranging, upon request, missions of experts to advise country's development in technical projects and marine and coastal management plans; and
- (iv) assisting Member States in designing and implementing their national development projects for extra-budgetary resources.

4. Purpose/Objectives:

Objectives of the Programme are to:

- (i) assist the Commission's member States to develop their capacities to carry out research and operational activities in marine sciences at their national level, and to enable their scientists and institutions to participate in international oceanographic cooperative projects;
- (ii) help bridge the gaps in marine scientific research and operational capabilities among Member States.

5. Scope:

Global, regional and national

6. <u>Cooperating Organizations</u>:

IOC National Commission of member States National Funding Agencies of IOC member States

7. <u>Duration</u>:

All year

- 8. Approx. Cost (US\$):
- 9. Source of Funding:

UNESCO Reg. Budget, MS donations

A/AC.237/39/Add.1 English Page 42

Relation to Convention: (Subject Code): 10.

K01

INTERNATIONAL CIVIL AVIATION ORGANIZATION (ICAO)

1. Organization: International Civil Aviation Organization (ICAO)

2. <u>Title of Activity</u>: Aircraft engine emissions database and forecasts

3. Short Description: Development of a database and forecasts on where

aircraft fly (longitude, latitude, altitude) and what they

emit (NOx, etc).

4. Purpose/Objectives: Part of ICAO's work programme on aircraft engine

emissions, but could also contribute to your work on

greenhouse gas inventories.

5. <u>Scope</u>: Global

6. Cooperating Organizations: NASA, European Civil Aviation Conference also

currently exploring cooperation with IPCC, WMO and

UNEP

7. <u>Duration</u>: 1993/1994

8. Approx. Cost (US\$): Costs largely borne by individual States

9. Source of Funding: No direct funding at present. EC funds some European

inputs

10. Relation to Convention

(Subject Code):

B01, B02, B05

l. Organization: International Civil Aviation Organization (ICAO)

2. <u>Title of Activity</u>: Control of aircraft engine emissions

3. Short Description: Review of actions needed to control the effects of aircraft

engine emission on the environment around airports, the ozone layer and the global climate. Includes examination of technological developments, operational solutions, and

regulatory and charging mechanisms.

4. <u>Purpose/Objectives</u>: To minimize or, if necessary, decrease the adverse

impacts of aircraft emissions on the environment.

5.	Scope:	Global
6.	Cooperating Organizations:	Expected to be of interest to IPCC WG2
7.	Duration:	1993/1994 and probably beyond
8.	Approx. Cost (US\$):	Costs largely borne by individual States
9.	Source of Funding:	None at present
10.	Relation to Convention (Subject Code):	F01 G03 H01 I01

WORLD HEALTH ORGANIZATION (WHO)

1.	Organization:	World Health Organization (WHO)
2.	Title of Activity:	Review report on the potential health impact of global climate change
3.	Short Description:	This review is carried out jointly with the World Meteorological Organization (WMO) during 1993 and 1994 and will update a similar report published in 1990 by WHO.
4.	Purpose/Objectives:	To provide an up-to-date assessment of the scientific basis for health impact of global climate change.
5.	Scope:	Global
6.	Cooperating Organizations:	WMO, US EPA, IPCC, UNEP (not yet confirmed)
7.	Duration:	1993 - 1994
8.	Approx. Cost (US\$):	500,000
9.	Source of Funding:	WHO, WMO, US EPA, UNEP (not yet confirmed)
10.	Relation to Convention (Subject Code):	COI, KOI

	WORLD METEOROLOGICAL ORGANIZATION (WMO)				
1.	Organization:	World Meteorological Organization (WMO)			
2.	Title of Activity:	World Climate Programme, Atmospheric Research and Environment Programme Department, World Weather Watch, Technical Co-operation Department and other programmes.			
3.	Short Description:	The WMO scientific and technical programmes provide for the environment and climate studies relevant to the needs for improved knowledge and systematic observations required by the Convention.			
4.	Purpose/Objectives:	To facilitate collection and management of data to foster the effective application of climate knowledge, to improve the understanding of climate processes and to assist countries in relevant national activities.			
5.	Scope:	Global and regional			
6.	Cooperating Organizations:	UNEP, UNESCO and IOC, ICSU, FAO, UNDP, WHO and others			
7.	<u>Duration</u> :	Ongoing at least since 1988			
8.	Approx. Cost (US\$):	About 20 M annually			
9.	Source of Funding:	Regular budget trust funds UNDP			
10.	Relation to Convention (Subject Code):	A01, B05, F02, F03, F04, G01, G04, G05, K01, L01, M01			
1.	Organization:	World Meteorological Organization (WMO)			
2.	Title of Activity:	Fellowships and training activities in climate-related subjects			
3.	Short Description:	About 25/30 short-term and 4/5 long-term fellowships awarded per year and about 2/3 training events implemented per year on climate-related issues.			
4.	Purpose/Objectives:	To assist WMO Members in meeting their training needs.			

Global and regional

National Meteorological Services and various Agencies of

5.

6.

Scope:

Cooperating Organizations:

2.

3.

Title of Activity:

Short Description:

		the UN family short-term fellowships: 2/3 months;
7.	Duration:	training events: 1-2 weeks
8.	Approx. Cost (US\$):	Not applicable
9.	Source of Funding:	WMO regular budget, UNDP, Trust Funds
10.	Relation to Convention (Subject Code):	K01
1.	Organization:	World Meteorological Organization (WMO)
2.	Title of Activity:	Hydrology and Water Resources Programme of the World Meteorological Organization
3.	Short Description:	To advance the assessment and forecasting of the quantity and quality of water resources and in the mitigation of water-related [pollution].
4.	Purpose/Objectives:	To promote sustainable development.
5.	Scope:	Global, regional and national
6.	Cooperating Organizations:	UNESCO, World Bank, UNDP and several other water orientated UN bodies and agencies
7.	<u>Duration</u> :	Ongoing
8.	Approx. Cost (US\$):	SFR 12 million (SFR 112 million)
9.	Source of Funding:	Regular Budget (UNDP, Funds in Trust)
10.	Relation to Convention (Subject Code):	F02
1.	Organization:	World Meteorological Organization (WMO)

Basic Data - Global Atmosphere Watch (GAW)

GAW integrates many monitoring and research activities involving the measurement of atmospheric composition.

Purpose/Objectives: Serves as an early warning system to detect further 4. changes in atmospheric concentrations of greenhouse gases changes in the ozone layer and in long-range transport of pollutants including acidity, and toxicity of rain as well as the atmospheric burden of aerosols. 5. Scope: Global 6. **Cooperating Organizations:** UNEP, WHO Initiated in 1989 based on networks operation since the 7. Duration: 1950s and 1960s Member operated 8. Approx. Cost (US\$): 9. Source of Funding: National sources plus limited international funds 10. Relation to Convention A01, B02, B04, C01 (Subject Code): 1. Organization: World Meteorological Organization (WMO) (with other sponsors, see no. 6) 2. Title of Activity: Global Climate Observing System Newly formed programme to define coordinate 3. **Short Description:** observations for climate change defection, monitoring, to support research and modifying of climate variations, and for economic decision-making. 4. Purpose/Objectives: Meet observational needs for various climate change activities 5. Scope: Global, regional and national WMO, UNEP, IOC, ICSU 6. **Cooperating Organizations:** 7. **Duration**: Begun 1992 - continuing activities 8. Approx. Cost (US\$): Organization \$500k/yr 9. Source of Funding: Sponsors, national contributions

A01, L01, M01

10.

Relation to Convention

(Subject Code):

WORLD TOURISM ORGANIZATION (WTO)

1. Organization: World Tourism Organization (WTO)

2. <u>Title of Activity</u>: Significance of climate change for tourism

3. Short Description: Watching brief only. WTO's Environment Committee

decided in 1991 to maintain contacts with WMO and UNEP on this subject but NOT to undertake a specific

budgeted activity at that time.

4. Purpose/Objectives:

5. <u>Scope</u>: Would be global

6. <u>Cooperating Organizations</u>: WMO, UNEP

7. Duration: No time limit

8. Approx. Cost (US\$): Zero

9. Source of Funding:

10. Relation to Convention

(Subject Code): A01, C01, D01, L01

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INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS (ICSU)

1. Organization: International Council of Scientific Unions (ICSU)

2. <u>Title of Activity</u>: International NGO

3. Short Description: Network of scientific bodies (national and international),

mounts large interdisciplinary programmes of special

interest to INC: the WCRP* (with WMO, IOC) and the

IGBP*.

4. Purpose/Objectives: Promotion of scientific cooperation for benefit of

humanity.

5. Scope: Global

6. <u>Cooperating Organizations</u>: UN, NGOs

7. <u>Duration</u>: 1931

8. Approx. Cost (US\$): Central budget 4 million

9. Source of Funding: National members subventions

10. Relation to Convention

(Subject Code): B01-5, C01, L01

(*) WCRP = World Climate Research Programme IGBP = International Geosphere-Biosphere Programme

ORGANISATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENT (OECD)/ INTERNATIONAL ENERGY AGENCY (IEA)

- 1. ORGANIZATION: International Energy Agency (IEA). Founded in 1974, the IEA is an autonomous organisation within the framework of the Organisation for Economic Cooperation and Development (OECD), and is the form for co-ordinating the energy policies of 23 industrialised countries. The IEA's objectives include improvement of the world energy supply and demand structure, more efficient use of energy, development of alternative energy sources to reduce dependence on any one source, assistance in the integration of environmental and energy policies, and the promotion of co-operative relation between oil-producing and oil-producing and oil-consuming countries.
- 2.4 Activities: For a number of years now, the International Energy Agency has been looking into environmental problems associated with energy production and use and possible solutions to these problems. Particular attention has been and will continue to be given to the energy dimension of global climate change policies. Those activities in the field of energy and environment which are of relevance to the INC are listed in the following pages (those activities with most direct bearing are marked with an asterisk *).
- 5. Scope: Mainly Regional and Global
- 6. Co-operating Organizations: OECD, NEA (Nuclear Energy Agency), NOVEM (the Netherlands energy and environment agency)
- 7. Duration: Short-term and on-going
- 8. Relation to Convention (Subject Code):

The IEA's Energy and Environment Activities Relevant to the Intergovernmental Negotiating Committee for a Framework Convention on Climate Change

The following is a listing of IEA activities in the field of energy and environment, including joint initiatives with the Organisation for Economic Co-operation and Development (OECD), which may be of relevance to the INC.

Statistics and Data Exchange on Energy and Environment

- *1. Gaseous emissions data base (IEA: Energy Statistics Division). A data base of emission factors and of the main gaseous emissions from energy extraction, supply and use is being developed for the support of analyses conducted by the IEA. Currently work concentrates on CO₂ emissions.
- *2. Greenhouse gas emissions inventories and inventory methodology development (IEA): Energy Statistics Division; OECD: Environment Directorate). As part of the IPCC Working Group I Programme of Work, the OECD and IEA are supporting all tasks directed to develop IPCC methods for estimation and reporting of national greenhouse gas sources and sinks.
- *3 Greenhouse gas technology information exchange (GREENTIE) (IEA): Energy Technology Co-operation Division; OECD: Environment Directorate. The IEA and the OECD are developing a greenhouse gas technology information exchange (GREENTIE) to facilitate identification and access to the wide range of information on energy sector technologies and practices which can help to mitigate greenhouse gas emissions. It is operated by NOVEM, the Netherlands energy and environment agency.
- *4. Indicators of progress in mitigating greenhouse gases (IEA: Energy and Environment Division; OECD: Environment Directorate). The aim of this project is to present socioeconomic indicators that can improve the understanding of societies' contribution to CO₂ emissions.

SECTORAL ANALYSES

- 1. **Study on electricity and the environment** (IEA): Energy and Environment Division). This study investigates the links between electricity and the environment. The main objectives are to examine the case for intervention to reduce or internalise the environmental effects of electricity production and use and to evaluate policy options.
- 2. Study on the energy market effects of climate change policies (IEA: Energy Economic Analysis Division). The results of this study will be examined from the perspective of the impacts on energy markets of such aspects as prices, demand and supply, and employment, as well as emissions reductions.

ECONOMIC AND POLICY ANALYSES

- 1. Energy subsidies and environment (IEA: Energy and Environment Division; OECD: Environment Directorate). This project includes an assessment of the potential environmental and economic benefits of eliminating energy subsidies and supports. It will also develop, test and apply a common methodology for estimating subsidies and price supports for coal, natural gas, oil and electricty.
- 2. Economic analysis of policy instruments an options of furthering global energy security and protection of the environment. (IEA: Energy Economic Analysis Division). This work entails assessment of the impact on OECD countries of several specific policy responses (e.g. imposition of carbon taxes) to identify the implications for energy consumption, energy efficiency and intensity, fuel mix and emissions.
- 3. Evaluation of claimed energy efficiency results (IEA: Energy Conservation and Efficiency Division). This study will review and compare Member countries' policies and programmes to improve energy efficiency. It will also, to the extent possible, compare claimed results.
- 4. Scoping study on the energy dimensions of recycling (IEA: Energy Conservation and Efficiency Division). This is an exploratory study which will identify the energy issues associated with Member countries' recycling programmes and policies. It will examine the analytical problems in assessing reputed energy benefits of various recycling schemes.

Energy Trade and Environment

*1. Study on energy embodied in the trade of products and implications for carbon emission (IEA: Energy and Environment Division and Energy Conservation and Efficiency Division; OECD: Directorate for Science, Technology and Industry). This study is quantifying the indirect and "offshore" carbon emissions embodied in the trade of energy and energy intensive products and determining how important a factor these might be in national emissions accounting.

D. Technology Development and Deployment

*1. Energy technology backstops for reducing emissions of greenhouse gases (IEA: Energy Technology Studies Division) This study analyses several economic and investment-related aspects of technology options to cope with climate change. It includes energy technology and energy systems for emission reduction; range of technical and economic potential of selected short-term (up to the year 2005) and potential long term (up to 2020-2030) options as well as carbon-free technology scenarios for far ahead in the future; critical factors affecting the implementation and penetration of the technologies: R&D requirements, priorities and programmes. A workshop on these issues will be organised co-operation with the IPCC in Autumn 1993.

- 2. Assessing technologies for renewable energy sources and their potential (IEA: Energy Technology Collaboration Division and Energy Conservation and Efficiency Division). This activity will provide suggestions for new technological developments, along with analysis of current R&D programmes, technology potential and achievements, and economic and environmental aspects.
- 3. Enhancing market deployment of new and improved energy technologies (IEA: Energy Technology Studies Division). This study reviews energy technology dissemination mechanisms and policies adopted by IEA Member countries. The aim is to examine the changing role of governments in promoting the adoption of R&D results from the laboratory into practical applications and progress concerning equipment, energy systems and services.
- 4. Internalising the cost of energy technologies and systems (IEA: Energy Technology Studies Division; OECD: Environment Directorate). This study looks at the criteria for determining the overall cost of energy technologies taking into account external costs during the entire fuel life-cycle. Attention will be given to innovative concepts such as total product/equipment recyclability and low-environmental impact (or "zero emission") energy technology systems. Their prospects and limits will be explored as well as opportunities for international collaboration.

COUNTRY AND AREA STUDIES

- *1. Review of energy policies of IEA countries (IEA Secretariat, Country Studies Division). This is a recurrent survey of energy policy developments. Energy and environment, and particularly global climate change policies, is among the issues analysed.
- *2. INC follow-up: evaluation of methodologies of reviewing national communications (IEA: Country Studies Division; OECD: Environment directorate). This activity will ascertain methodological issues that could develop in conducting country studies to support commitments made in the United Nations Framework Convention on Climate Change. IEA will focus on those issues relevant to the areas of energy policy, pricing and market structures and the adequacy of the analysis of the effects of proposed policies in these areas.
- 3. Energy policy surveys of the New Independent States and Central and Eastern European Countries (IEA: Non-Member Countries Division A). This series of overall energy policy reviews also covers energy-related environmental problems and possible solutions. The analysis includes the status of the output of energy related pollutants, their present state of control, plans for further control and clean-up for all energy sources for the full fuel cycle (i.e. including end-use).
- 4. Energy and environmental issues in Central and Eastern Europe (IEA: Non-Member Countries Division A; OECD: Environment Directorate). Analysis will focus on barriers to investments related to environmental protection and improve efficiency in the energy sector.
- 5. **Developing countries' energy reviews.** (IEA: Non-Member Countries Division B) Given the increasing share of developing countries in world energy demand, and the related environmental problems, a study on the determinants of energy demand in developing countries is under way for eventual publication towards the end of 1993.

UNITED NATIONS DEVELOPMENT PROGRAMME (UNDP)

General overview of UNDP activities relating to climate change:

- assistance in the preparation of national programmes and national action plans on climate change;
- strengthening of national and regional capacities for monitoring of climate change and its impacts;
- examination of the interrelationship between climate change and sustainable development with special emphasis on efforts to combat drought and desertification;
- determination of greenhouse gas sources and sinks on regional and global bases; and
- evaluation of socio-economic impacts of climate change and development of effective response strategies nationally and regionally.

By sector, UNDP projects cover:

- Energy, including energy efficiency strategies, increased efficiency in electric power generation, transmission and distribution, energy conservation in the industrial, transport and residential/commercial end-use sectors, promotion of new and renewable energy sources (especially solar and wind energy), and determination of regional greenhouse gas emission sources and sinks;
- Industry, including more efficient industrial operations, transfer of most appropriate technologies, cleanup of industrial pollution and monitoring of transboundary air pollution;
- Water, including cleanup of polluted bodies of water and water quality monitoring; and
- Health, including environmental health programmes.

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Energy Sector Programmes and Activities

UNDP plays a catalytic role in providing technical assistance to developing countries for energy extraction/production, transformation and utilization, together with programmes to increase power sector and energy end-use efficiencies.

Activities of UNDP in the energy/environment area comprise two inter-related programmes:

- (a) Those funded under UNDP's regular programme of technical cooperation that directly assist governments and which utilize various executing agencies or which are under a national execution modality implemented directly by governments.
- (b) Activities funded under special purpose trust funds such as the energy/climate change area under the Global Environment Facility (GEF). Under GEF, UNDP has 32 projects in its portfolio of projects relating to global warming, amounting to an allocation of \$102.4 million (See table, page 62). (Please note that project number GLO/93/G31/A/1G/31 is an information and training programme to promote the implementation of the Framework Convention on Climate Change.)

UNDP regular programme

UNDP's funding strategy at the national level covering energy/environment interaction includes the following objectives:

- more efficient fossil fuel production and transport operations;
- more efficient fuel utilization operations in the industrial, transport, residential/commercial and domestic sectors;
- lower emissions from fossil fuel burning electric power plants;
 - environmentally safer coal mining activities;
- re-injection back into reservoirs of safe disposal of geothermal waste fluids;
- design of new and renewable energy projects (solar, wind, biomass, multi-source); and
- enhancement of national energy planning and information systems including the incorporation of environmental considerations into overall energy system planning.

Sample UNDP-funded activities:

Bangladesh: Reduction of power losses due to technical and non-technical factors that will result in improved efficiency of power generation and reduction of gaseous emissions;

Bolivia: An environmental study to assess whether future production of geothermal fluids would impact wildlife;

china: (a) Modernizing a pilot coal-fired plant that would reduce coal consumption while raising power output thereby reducing emissions; (b) assessing river pollution caused by waste water from geothermal drilling being released into the river and the feasibility of drilling wells to re-inject waste water back into the reservoir;

India: Under a new comprehensive energy conservation project, detailed conservation audits have increased energy efficiency in the industrial, transport, residential and commercial sectors, while fostering institutional development and contributing to the formulation of national energy efficiency and emission standards.

GLOBAL ENVIRONMENT FACILITY PROJECTS: GLOBAL WARMING

30 June 93

GEF PROJECTS - GLOBAL WARMING

(US\$ Thousands)

TRANCHE	KEGION	PROJECT NUMBER	PROJECT TITLE	AGENCY AGENCY	THE	APPROVED ALLOCATIONS
150	6LOBAL	 	Grownhouse gas from rice fields	oes	GAI	5,000.0
151	ELOBAL	GL0/91/G32/k/16/16	Monitoring greenhouse pases	uno	i di	4.800.0
lst	ASIA	CPR/91/G32/A/16/42	Limiting emissions of greenhouse gases	Les	a.	2.000.0
ist	ASIA	CPR/92/G31/A/16/01	Coulted methine	DESD	EVI	10,000.0
2nd	AFRICA	Z(H/92/G31/H/1G/01	Photovoltaics for homes/communities	DESD	ผ	7,000.0
2rd	ASTA	RAS/92/G31/C/16/31	least cost greenhouse gas rechection	290	eu.	304.8
2nd	ALZA	KAS/92/G33/A/1G/45	Least cost 6H gas reduction (main phuse)	ACOB	i ou	9,195.2
2nd	AIZA	11M0/92/G31/A/16/99	Hilly Ridel resource development	MEX	CA:	7,500.0
24	LATCH MER	BRA/92/G31/A/16/99	Alonuss gasification 4 gas turbines	MEX	C-X	7,700.0
ঠাব	LATEN AMER	PER/VZ/G31/A/16/01	Tech asst to Centre for energy conservation	DESD	ω ν	900.0
719	GLOBAL	GLO/92/G31/A/16/31	START global charge initiative	oes	GA	4,000.0
bıE bıE	ASIA	1M0/92/G32/A/16/99	Sia energy from waste	MEX	CH CH	5,500.0
3rd 2rd	ASIA LATIN AMER	PAK/92/G31/A/16/99	Fuel efficiency in road transport sector	KEX	GN .	7,000.0
aru		·	STARY global change initiative (sub-project)	250	CM	3,000.0
4th	INTERREG*L	1x7/93/G31/A/16/31	Alternatives to slash & burn research initiat	290	au .	. 3.000.0
4 th	AFRICA	18 <i>8F/93/G</i> 37 <i>/A/16/</i> 31	Sub-subaran urechouse and assessment	عمم ا	GH.	2,000.0
4th	AFRICA	RAF/93/G3:2/A/16/31	W. Afr. control 6H gas thru energy efficiency	290	וגם	3,500.0
4 th 4 th	AFRICA	BEN/93/G31/A/16/99	Mut of woody savarna and established woodlats	NEX	CI)	2,500.0
4 th		MAU/93/G31	Vind electric power for socio-economic develo	ĺ	(CL)	2,000.0
4 th	LATIN AHER	SOD	Rangeland rehabilitation for carbon sequestra Reduction of greenhouse gases		CH.	1,500.0
7	LATTE AMEN	C(1)773/031/1/10/77		NEX	cu .	1,700.0
5 th	GL.DEIAL	GL 0/93/G31/A/1G/31	Climate charge capacity blug.	OP S	سا	4100 #
5 th	AFRICA	HJRT/93/631	Electricity & fuel from instantrial muste	l ner		900.u 2,500.0
5 ch	ARAB STATES	RAB/93/631	GH gas reduction strategy		<u> </u>	2,500.0
Sth	AIZA	123/E6/DNI	GH gas reduction		E .	1,500.0
PRIF	AFRICA	O-R/93/611	GN mitigation		cu	1
PRIF	ARAB STATES	JOR/93/541/A/16/31	Methane reduction furth of municipal agree	OPS	GU	400.0 200.0
PRIF	WINT PINICS	121K/A3\er1\Y\JE\71	lElectricity demand side mor	042	au	500.0
PRIF	ARAB STATES	YEN/93/GL1/A/1G/31	ILPG substitution programs	240	(1)	800.0
PRIF	AIZA	CPR/91/642/A/1G/42	Sichuan was trunsmission	LIE	l iii	1,400.0
PRIF	ASIA	THA/92/GL1/A/1G/42	Energy efficiency	Nu.	ā	600.0
PRIF	LATIN MER	VEN/93/641	Methane leaks in Maracaibo network		au	1,000.0
				,		
		total				102,400.0

WORLD BANK INVESTMENT PROJECTS-WORLD BANK

Country GEF Component/Project (Associated Bank Project)	Objective	RED Contact/ Task Manager	Approximate GEF Funding (\$ million)	Estimated Approval Date
AFRICA				
Mali Household Energy (Second Power Project)	Global Warming (reduction of deforestation & emission of greenhouse gases, substitution of fuelwood by kerosene & gas)	Floor/ Bertilsson 202-473-4188	2.50 (5 million bilateral cofinancing sought)	Oct. 93
Mauritius Sugar Energy Biotech. (Sugar Energy Dev.)	Global Warming (sugarmill energy efficiency, model cane tops & trash recovery handling & contribution for power generation)	Vidaeus/ Bertilsson 202-473-4188	3.00	March 92 (approved)
Nigeria Escravos Flared Gas Reduction (Escravos Flared Gas Reduction Project)	Global Warming (gas flare reduction, energy efficiency, LPG, major global GHG point source)	Bond/ Bertilsson 202-473-4188	25.00	Sep. 93
Cote d'Ivoire Crop Waste Power Project (Biomass Energy Development)	Global Warming (Power generation from palm oil and coffee crop processing residues, private sector power production)	Floor/ Bertilsson 202-473-4188	5.00	Feb. 94
Global Warming Total			35.50	

INVESTMENT PROJECTS - WORLD BANK

Country GEF Component/Project (Associated Bank Project)	Objective	RED Contact/ Task Manager	Approximate GEF Funding (\$ million)	Estimated Approval Date
LATIN AMERICA & THE CARIBBEAN				
Mexico Electric Power End-Use Efficiency (Free-standing)	Global Warming (compact fluorescent bulbs and tubes, innovative utility financing/consumer purchase, incentive schemes organizational learning)	Osae-Addo/ Luzuriaga 202-473-8768	10.00	Oct. 93
Costa Rica Grid-integrated Advances Windpower Project (Inter-American Development Bank Power Sector Loan)	Global Warming (fossil fuel displacement, commercial scale wind turbines, connected to national grid)	Calderon (IDB)/ Osae/Addo 202-473-8768	3.30	Dec. 93
Global Warming Total			13.30	

Country GEF Component/Project (Associated Bank Project)	Objective	RED Contact/ Task Manager	Approximate GEF Funding (\$ million)	Estimated Approval Date
EUROPE, MIDDLE EAST AND NORTH AFRICA				
Poland Coal-to-Gas (Heat supply & restructuring)	Global Warming (energy efficiency, natural gas, small-scale industry housing apartment complex total energy supply systems)	Arif/ Benmessaoud 202-473-2696	25.00	Sep. 93

INVESTMENT PROJECTS - WORLD BANK

Country GEF Component/Project (Associated Bank Project)	Objective	RED Contact/ Task Manager	Approximate GEF Funding (\$ million)	Estimated Approval Date
EUROPE, MIDDLE EAST AND NORTH AFRICA (cont.)				
Iran Transport Energy (Free-standing)	Global Warming (transport fleet efficiency upgrade, strategic planning, global environment coefficient of urban management systems design)	Arif/ Tharakan 202-473-2597	2.00	July 93
Morocco Repowering Existing Power Plant (Free-standing)	Global Warming (advanced gas turbine, cycle efficiency improvement, plant life extension)	Arif/ Larrieu 202-473-0249	6.00	April 94
Russian Federation GHG Reduction in Natural Gas Supply (Petroleum Sector Loan)	Global Warming (pipeline and compressor efficiency improvement; point of end-use efficiency)	Arif/ Stuggins 202-473-2607	3.20	Dec. 93
Czech & Slovak Republics Ozone Depleting Substances Reduction	Ozone Protection (identification of Key ODS reduction activities & new tech. for production recycling & ODS substitution)	Arif/ Rahill 202-473-7289	3.80	Nov. 93
Global Warming Total			36.20	
Ozone Protection Total			3.80	

INVESTMENT PROJECTS - WORLD BANK

Country GEF Component/Project (Associated Bank Project)	Objective	RED Contact/ Task Manager	Approximate GEF Funding (\$ million)	Estimated Approval Date
ASIA				
China Sichuan Gas Dev. & Conservation (Sichuan Gas Conservation)	Global Warming (distribution & transmission gas loss evaluation and reduction)	Johnson/ Shum 202-458-2452	10.00 (10 million GEF cofinancing sought)	Dec. 93
Philippines Geothermal Energy Development (Leyte/Luzon Geothermal)	Global Warming (renewable energy, cost- effective CO2 avoidance)	Johnson/ Fernandez 202-458-0476	30.00 (40 million GEF cofinancing sought)	Aug. 93
India Alternative Energy (Renewable Energy Project)	Global Warming (photovoltaic power, wind-power, financing/policy innovation)	Johnson/ Manzo 202-458-1466	26.00 (4 million GEF cofinancing sought)	Dec. 92 (approved)
Thailand Electricity Conservation (Distribution System & Energy Efficiency)	Global Warming (energy conservation, low cost GHG reduction, innovative demand management technologies)	Johnson/ Mehta 202-458-0472	9.50 (6 million GEF cofinancing)	April 93 (approved)
Pakistan Integrated Community Waste-to-Energy Systems (Punjab Urban Development Project)	Global Warming (landfill gas recovery/utilization, major methane source globally)	Arif/ Halldin 202-473-2519 (task mgt. of GEF component under EMTEN)	11.00	June 94
Global Warming			86.50	

TECHNICAL ASSISTANCE PROJECTS - UNDP

Summary of Status of GEF Work Program

Region/Country	Project/Objective	Task Manager	Approximate GEF Funding (\$ million)	Estimated Approval Date
AFRICA				
Reg'l: Sub-Saharan Africa	GHG Assessment and Least- Cost Glo. Warming Mitigation	Charles McNeill Tel: 212-906-5960	2.0	Aug. 93
Reg'l: West Africa	Control of GHG through Energy Efficient Bldg. Technology	Charles McNeill	3.5	Sep. 93
ASIA & THE PACIFIC				
Regional	Least-Cost Greenhouse Gas Reduction Plans	Nileema Noble Tel: 212-906-6575	9,5	Aug. 93
LATIN AMERICA & THE CARIBBEAN				
Chile	Reduction of Greenhouse Gases	Nicholas Remple Tel: 212-906-5426	1.7	May 93
INTER-REGIONAL				
Inter-regional	START Global Change Initiative	Philip Reynolds Tel: 212-906-5866	7.0	May 93 July 93
Total Global Warming			23.7	

TECHNICAL ASSISTANCE PROJECTS - UNEP

Project/Region	Objective	Task Manager	Approximate GEF Funding (\$ million)	Estimated Approval Date
Global Greenhouse Gases Country Case Studies	Global Warming (greenhouse gases emissions and sinks inventories, deforestation in Amazonian region)	Usher/Short UNDP Gen.# Tel: (254 2) 230-800	\$4.5	July 92
Total Global Warming			\$ 4.5	