





UNITED NATIONS ENVIRONMENT PROGRAMME  
PROGRAMME DES NATIONS UNIES POUR L'ENVIRONNEMENT



UNEP/GEF/STAP/4/6

Scientific and Technical  
Advisory Panel  
Fourth meeting  
Nairobi, 15-17 February 1996

REPORT OF THE FOURTH MEETING OF THE SCIENTIFIC AND TECHNICAL  
ADVISORY PANEL

CONTENTS

<u>Chapters</u>	<u>Paragraphs</u>
1. Opening of the meeting .....	1 - 9
2. Adoption of the Agenda .....	10
3. Organization of work .....	11 - 15
4. Adoption of the minutes of the third meeting .....	16
5. Report of the Chairs of the STAP Working Groups .....	17 - 39
6. Tasks arising from the sixth GEF Council Meeting .....	40
7. Review of the new Roster of Experts.....	41 - 44
8. Contribution of the STAP to the GEF Research Strategy.....	45
9. STAP budget for Fiscal Year 1997.....	46
10. STAP's report to the seventh GEF Council meeting.....	47
11. <i>Modus operandi</i> of STAP.....	48
12. Other matters.....	49
13. Adoption of the recommendations and report.....	50 - 54
14. Closure of the meeting.....	55

## ANNEXES

- I. Standard evaluation of GEF project reviewers.
- II. Terms of reference of the workshop on stimulating private sector initiatives for accelerating RETs in power generation.
- III. Outline of of the RETs paper.
- IV. List of meetings convened by STAP in 1996.

## **Item I : Opening of the meeting**

1. The fourth meeting of the Scientific and Technical Advisory Panel was held in Nairobi, Kenya, 15-17 February, 1996.
2. The meeting was opened at 9.00 am on 15 February 1996 by Dr. Pier Vellinga, Chairman of STAP. In his opening remarks, the Chairman presented a detailed report on the activities related to STAP since its last meeting. He reported on his participation in GEFOP meetings and pointed to the urgent need to finalize the STAP Roster of Experts. He noted that more than 300 experts had been recommended by the STAP members and the Implementing Agencies. The Chairman also reported on his contacts with the Director of the DPCSD in New York regarding the scientific activities carried out by the Secretariat of the Commission on Sustainable Development (CSD). The Chairman indicated that he will report to the next GEF Council meeting on the progress of STAP work in the fields of Renewable Energy, Biodiversity, International Waters and Land Degradation and he will present the new Roster of Experts. He concluded by saying that he was looking forward to a fruitful meeting to discuss and elaborate on the work that has been done on these issues over the last three months stressing the importance of STAP's work on Targeted Research.
3. Prof. Reuben Olembo, Deputy Executive Director of UNEP, in his opening statement welcomed the STAP members on behalf of Ms. Elizabeth Dowdeswell, the Executive Director of UNEP. He said that the meeting was an important next step in organizing the functions and implementing the role and mandate of STAP as approved by the GEF Council in July 1995. STAP's role has changed compared to that in the GEF Pilot Phase and STAP has been given a stronger mandate in providing strategic advice to the GEF. He also stated that STAP's participation in the GEF project cycle has also been revised and improved.
4. Prof. Olembo indicated the importance attached to the contribution of STAP to the GEF Research Strategy. UNEP has prepared a draft of a possible GEF Research Strategy paper. Prof. Olembo welcomed the decision of STAP to include this item on its agenda, indicating that the contribution of STAP on this issue will assist UNEP in the development of a final policy document for consideration by the GEF Council.
5. Mr. Ahmed Djoghla, the Executive Coordinator of UNEP/GEF, made a short statement stressing the importance attached by UNEP to the work of STAP, and reiterated the full support of UNEP in assisting STAP in the fulfillment of its important mandate.
6. Mr. Kenneth Newcombe, Chief, Global Environment Division of World Bank, presented a comprehensive report on ongoing World Bank activities related to the GEF. The World Bank is currently executing a number of projects totalling more than US\$ 200 million. Mr. Newcombe announced the plans of the World Bank to establish a Critical Ecosystems Partnership Fund (CEPF) of US\$ 100 million over five years aimed at targeting 20 ecosystems. Six types of activities will be supported in the following areas: science, economics, social sciences, policy, protected areas management and financing and education. Such an initiative is aimed at building partnership with NGOs and local communities. The final decision on this important initiative will be taken by the World Bank Board at its next meeting in March 1996. It was agreed that a briefing session on this initiative be held at the third session of the meeting.

7. Mr. Rafael Asenjo, the Executive Coordinator of UNDP/GEF, also made a presentation on the activities of UNDP as an Implementing Agency of the GEF. He informed the participants on the measures taken by UNDP to strengthen its GEF unit. He reiterated the commitments of UNDP to enhance its collaboration and partnership with the other Implementing Agencies and also stressed the importance attached by UNDP to the GEF Research Strategy paper and Roster of Experts.

8. Mr. Walter Lusigi, Senior Environmental Specialist from the GEF Secretariat also addressed the meeting. He informed the participants on the preparation by the Secretariat of the next GEF Council meeting and the measures taken to respond to tasks assigned to it by the Council members. The importance attached to the GEF Research Strategy paper. Mr. Lusigi informed the participants that the final text of the GEF Operational Strategy will soon be circulated and that the Operational Programmes are under preparation. He invited STAP to make its contribution to the finalization of the GEF Operational Programmes. The participants were informed that the third draft of the enabling activities related to biological diversity has been finalized in close consultation with the Implementing Agencies. They were also informed about the cooperation with WWF in the field of conservation of biological diversity.

9. Mr. Peter Schei, Chairman of the Subsidiary Body on Scientific, Technical and Technological Advise of the Convention on Biological Diversity, made a presentation on the work of the SBSTTA and the preparation of its next meeting likely to be held in Montreal, 2-6 September, 1996. He stated that the second meeting of the Conference of the Parties held in Jakarta, Indonesia in November, 1995 entrusted the SBSTTA with tasks additional to the already adopted work programme of SBSTTA for 1996, such as the issues pertaining to lack of taxonomists and the follow-up to the Biodiversity Global Outlook. The documents to be prepared for the next meeting of the SBSTTA will be dispatched to the members of STAP for their information and eventual feed back. The Chairman of STAP would also be invited to attend the meeting of SBSTTA with the possibility also of attending the meetings of the Bureau as ex-officio member.

## **Item 2 :Adoption of the Agenda**

10. The meeting adopted the following agenda contained in document UNEP/GEF/STAT/4/1 :

1. Opening of the meeting.
2. Adoption of the agenda.
3. Organization of work.
4. Adoption of the minutes of the third meeting.
5. Report of the Chairs of the STAP Working Groups.
6. Review of the new STAP Roster of Experts.

7. Contribution of STAP to the Draft GEF Research Strategy Paper.
8. STAP budget for FY 1997.
9. STAP's report to the seventh GEF Council meeting.
10. *Modus Operandi* of STAP.
11. Other matters.
12. Adoption of the report.
13. Closure of the meeting.

### **Item 3 : Organization of work**

#### **A. Participation**

11. All twelve STAP members attended the meeting :

Dr. Maria Helena Allegretti; Dr. Rokhayatou Fall; Dr. Stein Hansen; Dr. Stephen Karekezi; Prof. Jyoti K. Parikh; Dr. Mohd Nor Salleh; Dr. Jorge Soberón; Dr. Pier Vellinga; Prof. Chihiro Watanabe; Dr. Robert H. Williams; Prof. John D. Woods; Prof. Helen T. Yap.

12. Prof. Peter Schei and Prof. James Seyani, Co-Chairmen of the Subsidiary Body on Scientific and Technical Advice of the Convention on Biological Diversity, also attended the meeting. The meeting was also attended by Prof. Edward Ayensu.

13. The meeting was also attended by the following representatives of the GEF Secretariat and the Implementing Agencies: Mr. Rafael Asenjo, UNDP/GEF; Mr. Kenneth Newcombe and Mr. Lars O. Vidaeus, the World Bank; and, Mr. Walter Lusigi, the GEF Secretariat. UNEP was represented by Prof. Reuben Olembo; Ms. Renate Christ; Mr. Ahmed Djoghla; Ms. Danae Issaias; Mr. Pak Sum Low; Mr. Timo Maukonen; Mr. M. McFarland; Mr. Nelson Sabogal; and Ms. Cyrie Sendashonga.

#### **B. Organization of work**

14. The meeting adopted the organization of work contained in document UNEP/GEF/STAP/4/1/Add.2.

15. Meetings of the STAP Working Groups were also convened.

**Item 4 :Adoption of the minutes of the third meeting.**

16. After oral amendments, the meeting adopted the minutes of its third meeting contained in document UNEP/GEF/STAP/4/2.

**Item 5 :Report of the Chairs of the STAP Working Groups.**

17. Under this agenda item the Chairpersons of the five STAP Working Groups presented oral reports on the work of their respective Working Groups.

**I. International Waters Working Group**

18. Prof. John Woods, Chairman of the International Waters STAP Working Group presented, at the first session of the meeting, the following report on progress achieved since STAP 3 by the International Waters Working Group.

**1. Thematic Paper on International Waters**

The final version was submitted. It highlights the following issues:

- (a) Case studies of best practice (Appendix 1)
  - a new technique for mapping surface velocity field by over-the-horizon radar was presented;
- (b) Need to discriminate between natural changes and those due to human activity (problems that remain unresolved are, for example, fish stocks and water level of lakes);
- (c) Need to design monitoring systems in concert with information systems used to support management decisions (i.e. data assimilation into mathematical simulation);
- (d) Need for quality control at all stages;
- (e) Need for demonstration of new information technology methods in existing GEF projects, including Lake Victoria and others;
- (f) Note that International Waters area overlaps the other three areas of GEF:
  - Climate (prediction and impact)
  - Biodiversity (marine biodiversity; fisheries)
  - Ozone depletion (impact on primary production);
- (g) Highlight the key role of new information technology.

## **2. London Ocean Workshop (30 November - 2 December, 1995)**

Prof. John Woods represented STAP at the Workshop which was a high-level event sponsored by U.K. and Brazil, with representation of over 60 nations and international organizations.

## **3. International Waters Assessment (IWA)**

As pointed out at previous meetings of STAP, the lack of an International Waters Assessment (IWA) comparable with that of the IPCC and the Global Biodiversity Assessment and Stratospheric Ozone Assessment, was a unique and serious impediment to the implementation of the IW component of the GEF. While there already exist a number of assessments of separate aspects of International Waters, there is no holistic assessment of the kind needed to develop an intergovernmental consensus on priorities for action by the GEF. Some existing assessments fail to achieve the necessary impact because they were not sponsored by - and, therefore, not owned by - national governments acting in concert. To be effective, a comprehensive IWA would have to be sponsored collectively by governments and undertaken independently by leading experts.

In this regard it is important to note that the International Council of Scientific Unions (ICSU) has offered its good offices for developing an IWA, and to that end it requested the President of its Scientific Committee on Problems of the Environment (SCOPE) to convene an *ad hoc* meeting of experts to help develop the idea of an IWA. Prof. John Woods, who is also the Chairman of the STAP IWWG, was closely involved in these activities. That meeting was held in Paris, 4-5 February 1996. The outcome is outlined in a letter from the Executive Director of ICSU to the STAP IW Chairman formally offering to contribute to an International Waters Assessment. That letter was presented to STAP 4.

In addition, it was pointed out that the United Nations sponsored Joint Group of Experts on the Scientific Aspects of Marine Environmental Protection (GESAMP) is intending to embark on another global assessment of the State of the Marine Environment, a regular exercise undertaken as part of its mandate. The mechanism which GESAMP employs for its assessment could be tapped as well for the IWA proposed by STAP, so that existing resources and networks are used optimally, and so that complementarity of effort, rather than duplication, is fostered. In this regard it is important to note that STAP member Helen Yap is Vice-Chair of GESAMP.

## **4. The Role of STAP vis-à-vis GEF Project Management**

STAP is concerned with providing high quality advice on Science and Technology: it is not concerned with management of GEF projects, which is the responsibility of the GEF Implementing Agencies. However, there is a need for effective communication between the STAP IWWG and those members of the Agencies responsible for International Waters. To foster that communication it was agreed at STAP 2 and again at STAP 3 that Mr. Duda, IW Coordinator of the GEF Secretariat



should visit the Chairman of STAP IWWG. That visit has not yet taken place, apparently on the grounds of insufficient travel funding. The resulting lack of communication between STAP and GEF Management has prevented progress on Item C of the IW Work Plan (STAP 3 Minutes, Annex III): demonstration projects for the new information technology.

#### 5. Advice to GEFOPs on individual GEF Projects

While STAP members are able to offer advice in their capacity as individual experts, the lack of an International Waters Assessment makes it difficult to base advice on a broader scientific consensus on the state of understanding, best practice and priorities.

#### 6. Review of 1995-96 Work Plan (from STAP 3 Minutes Appendix 3)

A.	Thematic Paper	done
B.	Case studies: preliminary report complete report	done not yet funded
C.	Demonstration projects	no action (see para 4 above)
D.	GEF Council requests Globality Incrementality Severity varieties	to be done first draft ready not yet funded
E.	STAP Liaison with other	Ongoing: meetings with ICSU, SCOPE, GESAMP, IOC during last quarter.

#### 7. Response to requests from GEF Council

The first draft of the paper on Incrementality was circulated. The first draft of the paper on Globality will be circulated at STAP 5 (June 1996). The issue of Relative Severity presented considerable difficulties and the WG will organize a Workshop in London to develop a paper, hopefully for delivery at STAP 6 (November 1996), although there is considerable uncertainty in how best to address this request.

#### 8. Best practice

Six cases studies of advanced best practices relating to the IW focal area were also presented as brief summaries in Appendix I of the theme paper. These will now be expanded into a substantive paper for delivery to STAP 6 (Nov. 96).

## 9. Targeted research

A preliminary list of targeted research targets are presented in the Theme Paper. These address issues that can lead to improvements in GEF IW projects. They include:

- (i) cost-benefit analysis,
- (ii) extension of existing best practice in IT to tropical waters,
- (iii) design criteria for demonstration projects,
- (iv) how to sustain effort after GEF projects end,
- (v) developing the habitat approach,
- (vi) assessing the load-carrying capacity of waters,
- (vii) methods of monitoring and assessment.

This list will be developed and prioritized and new topics relevant to the two other goals of targeted research (removing blocks in implementation of the GEF Operational Strategies; Capacity Building), will be developed for STAP 5 (June 1996).

19. At its third session held on 16 February, the meeting considered the implementation of the programme of work of the International Waters Working Group. The recommendations of the meeting are contained in paragraph 50 of the report

## II. Energy Mitigation Strategies/Climate Change

20. The Chairman of the Energy Mitigation Strategies/Climate Change STAP Working Group, Dr. Robert Williams presented at the first session a detailed report on the activities of the Energy Mitigation Strategies Working Group.

21. At its third session held on 16 February, Dr Robert Williams presented the draft paper *Outlook for Renewable Energy Technologies (RETs)* giving emphasis to biomass, wind energy, photovoltaic technologies and high temperature solar thermal technologies.

22. At the same session, Dr. Stephen Karekezi presented an overview on experience with RETs, lessons learned, and recommendations for accelerating the adoption of RETs in developing countries.

23. A presentation was also made by Prof. Chihiro Watanabe on the dynamics of the R&D/cost reduction process for RETs.

24. The recommendations of the meeting on issues related to Energy Mitigation Strategies/Climate Change are contained in paragraph 51 of this report.

## III. Adaptation/Climate Change

At the first session of the meeting, Dr. Pier Vellinga, Chairman of STAP and Chairman of the Adaptation/Climate Change STAP Working Group presented a theme paper on climate change. This report was prepared last year. Its findings have been used in developing the GEF Operational Strategy. The document contains the following

sections: confidence and uncertainty in climate change science; the context of the UN/FCCC and GEF relevant issues; other initiatives with GEF relevance; evolving context of the climate change problem; issues for consideration by STAP; a proposal for a programmatic approach towards the GEF portfolio; and recommendations. The report was endorsed by the meeting. As the conclusion of the report have been followed up through the GEF Operational Strategy and the STAP programme of work, it was agreed that there was no need to spend further money in publishing the report.

26. At the same session, Dr. Pier Vellinga also presented the annotated outline on adaptation stage I activities and priorities. The document deals with climate change impacts and opportunities for adaptation; the vulnerability of regions; the preliminary results of country studies activities; and an overview of priority areas and options for the GEF.

27. The outline was commented upon and amendments were endorsed. It was agreed to continue the elaboration of the work.

#### **IV. Biodiversity Working Group**

28. The Chairman of the Biodiversity Working Group, Prof. Stein Hansen, presented at the first session of the meeting, the following report on the activities of the Biodiversity Working Group.

29. The Working Group has completed the thematic paper in final draft form to be circulated internally for comments so that it can be submitted for approval at the STAP June meeting. The theme paper is structured into: (1) an introduction and issues part, focussing on the roles of local communities, NGOs and local and foreign scientists; (2) implications for the GEF Operational Strategy; more specifically addressing

- (i) enabling activities
- (ii) operational programmes
- (iii) targeted research
- (iv) cross-cutting issues

and finally, a (3) conclusion section.

30. The Working Group has embarked upon the task requested by the GEF Council of producing a STAP paper on sustainable use of biodiversity resources and on the so called ecosystems approach.

For this purpose and in order to achieve maximum consistency and coordination with the work of SBSTTA to meet the CBD goals, the Working Group has established a close working relationship with the past and new Chairmen of SBSTTA. It was decided that the two issues (sustainable use and the ecosystems approach) shall be analyzed and presented in an integrated manner.

31. The initial drafts prepared for this STAP meeting consist of (i) a generic paper addressing these key issues in a very condensed manner and (ii) specific comments to the GEF Operational Strategy. Starting with the CBD as the premise, it addresses the various scientific and operational issues, including area-, systems-, and locational specific approaches to dealing with interlinkages between conservation and sustainable use. It identifies the great diversity in national policies and institutional, legal and administrative set up and capacity to address the issues, and focusses on the need to identify the issue-specific set of tools, instruments and mechanisms needed to achieve location specific CBD goals. The paper then proceeds to discuss criteria for sustainable use of biodiversity and the problems encountered due to lack of: (a) theoretical understanding of processes at work (both natural and anthropogenic), and (b) data needed to apply the criteria for sound priority setting and decision-making. The role of available theoretical approaches for resources management (single-species and multi-species models), their strengths and shortcomings are identified as areas requiring further research, and the main observable causes of biodiversity loss are linked to the more socio-economic/institutional underlying causes that policies must address. The specifics of the ecosystems approach is not yet consensus agreed. The paper, therefore, discusses the state-of-the art and the various approaches presently applied and their policy implications. The paper discusses some of the basic principles and preconditions for successful action and highlights the need to prioritize research into conflict solving between immediate and remote interest groups as regards the ecosystem in question. The sharing of benefits, not just between the parties to the CBD, but equally important within the affected countries need to be highlighted for successful sustained solutions to be found.

The paper concludes with pointing to the general lack of knowledge and data and identifies some fundamental questions that require answers as a basis for actions promoting sustainable ecosystems management. A set of priorities for research activities are identified as critical to successful implementation of the ecosystem approach, covering natural as well as socio-economic sciences and their cooperation. This paper will be extended to include elaboration of site-and ecosystem-specific issues and problems to illustrate the variety of challenges, options and impediments. This will be done by means of an agreed division of labor between the WG-members and the two SBSTTA Presidents in order to provide illustrations from a representative sample of systems and geographical regions.

It will be completed as a "STAP draft for review" by 20 March 1996, so that it can be made available for comments by interested GEF Council members and IAs, the intention being to have it externally reviewed so that it can be published as a STAP-paper. In the meantime, the GEF Secretariat and the IAs can use the draft in their finalization of the GEF Operational Strategy.

32. It was pointed out that the ecosystems approach in the Operational Strategy means both a prioritization of certain types of ecosystems and a syntactic, integrative point of view.

33. The document identifies other major and local ecosystems which should be considered as important. In relation to the ecosystems perspective, the document intended to stress the fact that sometimes an ecosystemic approach may not be needed and that referees and task managers should be open to particulars of the projects.

34. For the third output, the WG will focus on a report on targeted research. This will be conducted in April and May so that a draft paper can be submitted and presented at the June meeting of the STAP. It will focus on research of:

- (1) general/generic nature
- (2) area specific nature
- (3) project specific nature

and distinguish among the main categories of projects likely to be needed in the operational programmes and the enabling activities, on a scale ranging from areas with very restricted management as regards access and use, to areas that are open and used for a variety of purposes. Areas to be restored must fit in here.

The paper will be organized according to the needs of the GEF Operational Strategy, and look into the scope for "piggy backing" research as outlined onto projects in the applied areas. The paper will link up closely with the WG-paper on ecosystem approach and sustainable use, as well as the comprehensive Global Biodiversity Assessment.

35. At its fourth session held on 16 February, the meeting considered the programme of work of the Biodiversity Working Group. The recommendations are contained in paragraph 52 of this report.

#### V. Land Degradation Working Group

36. At its first session, Dr. Daba Fall, Chairperson of the Land Degradation STAP Working Group, presented the theme paper on Land Degradation as related to biological diversity, international waters and climate change. The GEF Council, at its meeting held in October 1995, requested STAP to make an analysis on the relationship between land degradation and the GEF focal areas aimed at the preparation of a framework of actions in land degradation as related to the focal areas.

37. The first part of the document contains a land degradation assessment as well as an assessment on land conservation. The following issues are identified as of particular relevance to the GEF: erosion control; deforestation control; salinisation control; soil cover restoration and control; desert margin monitoring; soil pollution control and overgrazing limitation.

38. The second part of the theme paper contains possible elements of a GEF strategy on land degradation, as well as possible GEF activities on land degradation and, in particular, on targeted research and sustainable land use. The theme paper includes proposals for the types of projects to be funded by the GEF.

39. At its fourth session, held on 16 February, the meeting considered the programme of work of the Land Degradation Working Group. The recommendations of the meeting are contained in paragraph 53 of this report.

## **Item 6 : Tasks arising from the sixth GEF Council Meeting**

40. Agenda item 6 was considered by the meeting in relation with the programme of work of the STAP Working Groups.

## **Item 7 : Review of the new Roster of Experts**

41. STAP was requested by the GEF Council to develop and maintain a Roster of Experts. This Roster will consist of a wide range of internationally recognized specialists in the GEF focal areas. The Roster is aimed at facilitating the review process of individual project proposals of GEF funding. The first edition of the Roster was developed during the Pilot Phase of the GEF. STAP decided to update the Roster of Experts. At its second session held on 15 February, 1996, the meeting considered agenda item 7, the new Roster of Experts. 207 candidates were recommended by the STAP members and 153 were so far approved. 127 new candidates were also recommended by the STAP members. 244 candidates were provided by the Implementing Agencies and other sources. 102 curricula vitae were received by the Secretariat. At this session, the Chairman requested the STAP Working Groups to consider and make recommendations on the experts suggested in their respective fields of competence. The Chairman also requested the Secretariat to send a reminder to those candidates for which curricula vitae had not been received.

42. At its fifth session, the meeting recommended the Chairman will present, to the April meeting of the GEF Council, a short document containing an introduction, the operational guidelines, the terms of reference for reviewing projects, the revised version of the questionnaire for evaluating the reviewers as well as the list of the experts without the curricula vitae. At this meeting, he will present the new Roster of Experts in such a form that it can from then be used by the GEF Implementing Agencies. At its fifth meeting, STAP will include additional names for the Roster which will be made available to the October meeting of the GEF Council in its final form. The Implementing Agencies have been invited to make use of the new edition of the Roster as of 4th April, 1996. The representatives of the Implementing Agencies supported the date as a good starting point for the new Roster of Experts. In case further clarification on the use of the Roster would be desired, the Implementing Agencies are invited to contact the STAP Chairman.

44. At the same session, the meeting also addressed the revised version of the standard evaluation of GEF projects' reviewers. The meeting endorsed the revised version and invited its Chairman to submit it to the next meeting of the GEF Council, to be held in April 1996, the text of which is contained in Annex I.

## **Item 8 : Contribution of the STAP on the Draft GEF Research Strategy Paper**

45. At its fifth session, the meeting considered the Draft GEF Research Strategy paper prepared by UNEP at the request of the GEF Secretariat, contained in document UNEP/GEF/STAT/4/4. The meeting had a useful exchange of views on this item. The

following issues were addressed : the definition of research and the relationship with targeted research currently being identified by STAP; the relationship between capacity-building and research; the incremental cost related to research; the objectives and guiding principles of research; the eligibility criteria; the priorities; monitoring and the relation between research and the managers of individual projects. Under this agenda item agreed that UNEP will present its document to the October meeting of the Council taking into account the views expressed by the meeting. It was also agreed that the issue of targeted research will be high on the agenda of the fifth meeting of STAP with the aim of presenting to the October meeting of the Council a document on this subject which will complement the document to be submitted by UNEP. The STAP members through the Chairs of the STAP Working Groups were invited to make concrete proposal within their respective area of competence to the fifth meeting of STAP.

#### **Item 9 : STAP budget for FY 1997**

46. At its sixth session, held on 17 February 1996, the meeting considered the STAP budget for FY 1997 contained in document UNEP/GEF/STAP/4/5. The STAP noted that its present budget is not sufficient to meet the cost of activities requested by the GEF Council during Fiscal Year 1996. It requested the Secretariat to explore the ways and means to mobilize additional financial resources. The meeting invited the Chairman to draw the attention of the Council members on this issue at the April GEF Council meeting.

#### **Item 10 : STAP's report to the seventh GEF Council**

47. At its sixth session, the meeting entrusted the Chairman to present a report on the activities of STAP and requested the Secretariat to make available the report of its fourth meeting available to the Council members.

#### **Item 11 : *Modus operandi* of STAP**

48. At its sixth session, the meeting considered agenda item 11, *Modus operandi* of STAP. This item was also considered in relation with the need to strengthen the cooperation with other scientific and technical bodies of particular importance to the mandate of STAP. A plan was made regarding the participation of STAP to international meetings of relevance to its mandate.

#### **Item 12 : Other matters**

49. At its third session, held on 15 February, a briefing session was convened by Mr Kenneth Newcombe, Chief, Global Environment Coordination Division on the Critical Ecosystems Partnership Fund proposed by World Bank. The session was opened to other UNEP staff.

**Item 13 : Adoption of the recommendations and the report.**

50. At its sixth session, held on 17 February 1996, the meeting adopted the following recommendations related to **International Waters**:

a. The theme paper on International Waters will be revised during March 1996 to take into account suggestions made by the Panel concerning the title and a preface. This revised version will be made available to the GEF Council in April 1996, and it will be circulated for international review by leading experts nominated by STAP. The final version will be submitted to STAP for approval in June 1996.

b. A one-day meeting will be organized by the STAP Chairman and International Waters Working Group members to meet the international waters coordinators of the Implementing Agencies and the GEF Secretariat. This will be the first of an ongoing series of informal liaison meetings designed to foster communications between STAP and GEF management at the level of the GEF focal areas. The agenda of this first meeting on International Waters will include :(i) demonstration projects for new information technology; (ii) targeted research.

c. The paper on Incrementality will be completed by March 1996, and that on Globality in April 1996. A workshop will be organized in London in May/June 1996 to develop the paper on Relative Severity.

d. A substantive paper presenting case studies of best practice will be developed on the basis of the summaries presented in Appendix I of the International Waters theme paper.

e. The strategy for targeted research in the International Waters focal area will be developed for the sixth meeting of STAP. This will build on and extend the topics already identified in the International Water theme paper.

f. The Working Group will develop the terms of reference and *modus operandi* of a Global International Waters Assessment through workshops to be convened during Fiscal Year 1997.

g. The Working Group will continue to maintain contact with other organizations relevant to the International Waters focal area.

51. The meeting adopted the following workplan for the **Energy Mitigation Strategies/Climate Change working Group**:

a. Review of Renewable Energy Technologies (RETs):

- (i) Complete executive summary of RETs paper at the latest by March 8 for distribution to the GEF Council before its April meeting.
- (ii) Revise long RETs paper by March 20, to be made available to GEF Council at its April meeting.



- (iii) Submit long RETs paper to outside reviewers in early April.
- (iv) The outline of the RETs report is contained in Annex II of the report.
- b. Phase I Report (Capacity Building) on Targeted Research Relating to EMS/CC
  - (i) Create an executive summary of the first draft, which was presented at the September 1995 STAP meeting. Make the executive summary available for review by other STAP members by the end of March.
  - (ii) Send the executive summary of the Phase I report to the June Workshop participants by end of April.
  - (iii) On the basis of the June workshop findings, finalize the executive summary of the Phase I report and submit it to outside reviewers.
- c. Phase II Report (a prioritized agenda for targeted research relating to EMS/CC that would be supportive of the GEF Operational Strategy)
  - (i) First draft by June STAP meeting.
  - (ii) Outside review of the draft in July.
  - (iii) Document finalized by September STAP meeting.
- d. Prepare a think piece on alternative options for using coal in more climate-friendly ways that GEF might consider for future projects.
  - (i) Outline by June STAP meeting.
  - (ii) First draft by November STAP meeting.
- e. A workshop on stimulating private sector initiatives for accelerating RETs in power generation will be convened in Amsterdam on 6-7 June 1996 just prior to the fifth meeting of STAP. The terms of reference of this workshop is contained in Annex III of this report. The Chairman of the EMS/CCWG was entrusted with the responsibility of preparing this workshop in close consultation with the Chairman and the Secretariat.
- f. Project on alternative climate-friendly transportation options that might provide the basis for future GEF projects.
  - (i) Outline by June STAP meeting.
  - (ii) Decide on contract support work needed for think piece.
  - (iii) First draft by February 1997 STAP meeting.
  - (iv) Workshop in connection with June 1997 STAP meeting.

52. The meeting adopted the following programme of work of the **Biological Diversity Working Group** :

- a. The final version of the thematic paper on biological diversity will be made available to the fifth STAP meeting (June 1996).
- b. The draft document on sustainable use of biological diversity and the ecosystem approach will be finalized in March 1996 in close consultation with the Chairmen of the Subsidiary Body on Scientific, Technical and Technological Advice of the Convention on Biological Diversity.
- c. The draft document on targeted research will be finalized in May 1996 and will be considered at the fifth STAP meeting.

53. The meeting adopted the following recommendations related to **Land Degradation**:

- a. The theme paper on land degradation as related to biological diversity, international waters and climate change prepared by the Working Group will be finalized as soon as possible.
- b. Consultations on the theme paper will take place in New York in September 1996 during UNCCD meeting.
- c. A brainstorming session will be held in Amsterdam on 10 June 1996, just prior to the fifth meeting of STAP on best practice in the field of land degradation as related to biological diversity, international waters and climate change with the land degradation coordinators of the Implementing Agencies and the GEF Secretariat. The objective of such a session is to develop a framework regarding the scientific and technical aspects of projects eligible to GEF funding. The result of the session will be a STAP document. The meeting will be prepared in consultation with the GEF Secretariat.
- d. The document of the June meeting will be submitted to a workshop to be convened by STAP in September 1996. The Chairman will send a letter to the GEF CEO for funding such a workshop.
- e. A paper on possible targeted research on land degradation in the GEF context will be prepared and finalized before June 1996.
- f. An analysis on incremental costs of GEF focal issues as related to some selected land degradation projects and initiatives will be prepared before October 1995.

54. At the same session, the meeting adopted its report on the basis of document UNEP/GEF/STAP/4/6/Rev.1 .

#### **Item 14 : Closure of the meeting**

55. The meeting was closed at 6.00 pm on 17 February, 1996. In accordance with the STAP programme of work for 1996, the fifth meeting will take place in Amsterdam from 11 to 13 June 1996. The list of meetings related to STAP activities for 1996 is contained in Annex IV of this report.

## STANDARD EVALUATION OF GEF PROJECT REVIEWERS

QUESTIONNAIRE TO BE COMPLETED BY TASK MANAGERS OF EVERY PROJECT REVIEWED BY ROSTER REVIEWERS FOR SUBMISSION TO GEFOP. PLEASE SUBMIT TO THE STAP SECRETARIAT WITHIN TWO WEEKS OF THE REVIEW.

1. Name of project reviewer:
2. Implementing Agency:
3. Name of the project reviewed:
4. task manager and/or focal point:
5. Date of GEFOP that the project was submitted to :
6. Level of funding (PDF Block, B, C Work Program):
7. *How would you rate the reviewers' ability to address the following issues in the context of TORs issued for the review:*
  - (a) The relevant *scientific and technical aspects* of the project ?  
Outstanding  
Good  
Fair  
Poor
  - (b) The relevant social aspects of the project (including stakeholder involvement, and capacity building) ?  
Outstanding  
Good  
Fair  
Poor
  - (c) Familiarity with current Best Practice (if relevant)?  
Outstanding  
Good  
Fair  
Poor

(d) The Relevant *sustainability* issues ?

Outstanding

Good

Fair

Poor

(e) *The regional context of the project* (if relevant) ?

Outstanding

Good

Fair

Poor

8. Did the roster reviewer find it necessary to recommend improvements in the project design (eg better definition of global benefits, replicability, linkage to other focal areas, etc.) to address these issues:

YES/NO

9. *Comments on other aspect of the review:*

(a) Other qualities of the review deemed important:

(b) Number of days allocated for the review:

(c) Was the review completed on time?

Yes

No

*Additional comments:*

10. Overall assessment : Should the reviewer be invited again?

11. Additional comments by Implementing Agency:

12. Additional comments by STAP Panel members:  
(to be completed by member of the Panel)

\* The STAP evaluator may request further information from the Implementing Agency staff.

**STAP Workshop on Stimulating Private Sector Initiatives for Accelerating RETs in Power Generation**

16 February 1996

**Objective:**

To discuss opportunities for power generation using each of the most promising RETs (wind, biomass, pv, solar thermal electric), identify key institutional obstacles inhibiting the exploitation of these opportunities by the private sector, and to suggest policies for overcoming these constraints and accelerating the implementation of RETs in the power sector of developing countries. Attention would be given to industrial consortia, including N/S joint ventures as instruments for accelerating technology transfer of RETs to the LDC power sector.

**Participants:**

The Workshop participants would be representatives of the private sectors of the North (~ 6-7) and the South (~ 6-7) interested in pursuing RETs projects in the South, some STAP members, and some observers from the Implementing Agencies. Total workshop participation (including observers) would be limited to 20-25 people.

The industrial participants would be chosen so as to have a good sense of the business issues of RETs projects; their expertise relating to technologies should be to the extent that they understand the key business issues associated with the technology (ies) they are concerned with.

Total participation would be limited to 20-25 people.

**Time & Place:**

June 7-8, 1996 (Friday Noon through Saturday 6pm) in Amsterdam, on eve of next STAP meeting.

**Inputs:**

Three STAP-prepared documents would be presented to participants at least 1 month in advance of the workshop to orient them to STAP's perspective and STAP expectations for the workshop: the STAP review of RETs; the Executive Summary of the STAP review of RETs that will be presented to the GEF Council in April; the Executive Summary of the STAP Phase I report on capacity building for targeted research. (The relevance of the targeted research report is that it gives emphasis to targeted research activities for GEF that would be supportive of private sector initiatives for accelerating the technology transfer of

climate-friendly energy technologies to the developing world.)

**Schedule:**

1. **Friday afternoon:**

Introduction by STAP members (overview of RETs; importance of private-sector initiatives relating to technology transfer for RETs; STAP expectations for the workshop; based in large part on STAP-prepared input documents).

Presentations by industrial-sector members:<sup>1</sup>

Case studies

Discussants

2. **Friday evening:**

Workshop dinner

Informal discussions

3. **Saturday morning:**

Case studies

Discussants

4. **Saturday Noon:**

Workshop lunch

5. **Saturday Afternoon:**

---

<sup>1</sup> Each industrial participant would either present a case study or be a discussant for a case study paper. Each discussant would have the opportunity to discuss interests/plans relating to implementing RETs in developing countries as well as comment on a case study. Determination of classification as case study presenter or discussant would be determined only after the invitations have been issued and accepted. Participants would make available to STAP viewgraphs for presentation (if any) and relevant background papers (if any), ideally before the workshop.



Roundtable<sup>2</sup> involving all industrial participants (chaired by STAP member)

Wrap up presentation by a STAP member--what was learned/not learned.

6. Saturday Evening:

Workshop dinner

Workshop End

7. Sunday-Monday:

Preparation of workshop report for presentation at STAP meeting.

Participants:

The following is a tentative list of potential invitees. Those marked with an \* are candidates with whom a STAP member has already discussed the possibility of a meeting (although none have yet been formally invited):

Rick Barsky (\*):

Chief financial officer and Senior Vice President of Development, Amoco/Enron Solar. [Amoco/Enron Solar is an obvious US choice, in light of their aggressive ongoing activities to commercialize pv power systems. An alternative candidate at this company is Robert Kelly, their CEO.]

Jeff Eckel:

President and Chief Executive Officer of Energy Works. [Energy Works is a new company, formed in October 1995 as a joint venture between Bechtel Enterprises (the project development and financing arm of Bechtel Group, Inc., the large privately held, global engineering and construction company) and Pacificorp (a power company) to develop, finance, own, and operate small, renewable and distributed energy systems and to provide industrial energy efficiency services. The company will focus on projects that enhance economic development and preserve the environment. If Eckel is not available, Pat DeLaquil, a project engineer at Energy Works (\*), could be invited. DeLaquil is more technically oriented than Eckel, who is business-oriented.]

---

<sup>2</sup> The roundtable discussion would focus on the participant's views of the opportunities offered by one or more RETs, the merits of alternative industrial structures (including N/S joint ventures) for exploiting these opportunities, the major perceived obstacles to exploiting these opportunities, and suggestions for overcoming these obstacles.

Roger Booth (\*):

Renewable Energy Unit, Shell International Petroleum Company, London. Booth is the supervisor of Phil Elliott, the Shell person responsible for Shell's role in the GEF-sponsored biomass integrated gasifier/gas turbine power project in the northeast of Brazil. [Alternative candidates from Shell would be Elliott, or Georges Dupont-Roc, formerly Head of the Energy Division at Group Planning, now Head of Renewable Energy Projects at Shell.

Ottfried Voigt (\*):

Formerly, Executive Director of Power Generation, Siemens/KWU. Voigt retired from Siemens in August 1995 and formed (with a colleague from the German Ministry of Technology) a small company Energy Innovation GmbH that is engaged in renewable energy project development in developing countries, focussing initially on wind energy projects, especially in North Africa and China.

Zhang Lian Xiang:

President of Wuhan Heavy Duty Machine Tool Works and Chairman of China Machine Tool and Tool Builder Association. Wuhan Heavy Duty Machine Tool Works is a large factory in China that has been involved with companies outside of China. Zhang is looking for western partners in the renewable energy area, such as wind energy. Zhang is highly recommended by Voigt. Drawback: he does not speak English well—a translator would be needed. Wuhan is a special industrial development zone.

Bruno Toppel:

CEO of Heliodynamica, a Brazilian company in Sao Paulo that manufactures PV modules and devices. Has not been able to compete in price with foreign PV competitors.

Neil Kaminar:

Vice President, SEA Corporation, California. SEA Corporation is developing a small (1 kW modular, low concentration-ratio (10-fold) PV concentrating system that might be well suited for many distributed (grid connected or stand-alone) applications.

I. Dube:

Zimbabwe Electricity Supply Authority

Prof. J. Baguant (\*):

Prof. J. Baguant, Pro-Vice Chancellor, University of Mauritius, is the foremost expert on power generation in Mauritius and has taught many of the senior engineers and decision-makers in the sugar industry of Mauritius. Karekezi is also seeking a suggestion for an industrial representative from Prof. Baguant.

Michael Pennington (\*):

Project Manager, EC-COGEN Programme, Asian Institute of Technology, Bangkok. COGEN is one of the most dynamic cogeneration initiatives in the developing world, which has supported N/S industrial partnerships in numerous South-East Asian countries. Karekezi is also seeking Pennington's suggestion for an industrial representative from the COGEN network.

2 to 3 PV experts:

Watanabe will identify prospective Japanese participants from NEDO (New Energy and Industrial Development Organization) and leading PV manufacturing firms.

Indian industrial representative:

Parikh will identify appropriate industrialist. Perhaps someone involved with a Renewable Energy Enterprise Zone project in Rajasthan State.

Wind turbine developer from Mexico:

Name to be supplied by Jorge Soberon Mainero.

Representative of Transalta Corp., Canada

Involved with Business Council for Sustainable Development. Parikh will look into appropriateness of extending an invitation of someone from Transalta.

## OUTLINE OF RETs PAPER

## I. Introduction

- A. Major recent advances for wide range of RETs--wind, biomass, pv, solar thermal
- B. Large potential for GHG emissions reduction
- C. Prospect of favorable market dynamic
- D. Often many ancillary benefits
- E. Review of actual experience
- F. But kickstarting needed to help launch new industries plus support for applied research and development
- G. Some considerations about renewable energy implementation in developing countries.
- H. Danger of snatching defeat from the jaws of victory

## 2. Wind power

- A. Summary as in Wms viewgraph
- B. Wind pumps to replace diesel or grid-electricity
- C. Recommended roles for GEF:
  - a. Wind atlas development (targeted research)
  - b. Wind integration into grid (technical and valuation issues)(targeted research)
  - b. Projects to bring good remote wind resources to major markets
  - c. Phased approach to exploiting potential for minimizing cost for both wind mechanical and wind-electric power via increasing fraction of local manufactured equipment, esp. where needed to compete with low-cost conventional power

## 3. Biomass

- A. Mixed track record with existing bioenergy technologies (e.g., helping farmer by converting food crop to energy not always promising)
- B. Need to emphasize strategies that have potential for being widely competitive, with favorable lifecycle characteristics
- C. Large potential for competing with coal
- D. Initial development of bioenergy industry will be based on use of agricultural and forest product industry residues and MSW.

## List of meetings to be convened by STAP in 1996

Meetings	Venue	Dates
1. Meeting between the International Waters Working Group and the Co-ordinator on international waters of the Implementing Agency and the GEF Secretariat	London	May/June
2. Workshop on stimulating private sector initiatives for accelerating RETs in power generation	Amsterdam	6-7 June
3. Meeting between the land degradation working group and co-ordinators on land degradation of the Implementing Agencies and the GEF Secretariat	Amsterdam	10 June
4. Meeting of the STAP Working Groups	Amsterdam	11 June
5. Fifth Meeting of STAP	Amsterdam	11-13 June
6. Workshop on land degradation	Dakar	September
7. Meeting of the STAP Working Groups	Amsterdam	10 September
8. Sixth Meeting of STAP	Amsterdam	11-12 September
9. Meeting of the STAP Working Groups	Washington	25 November
10. Seventh Meeting of STAP	Washington	26-27 November