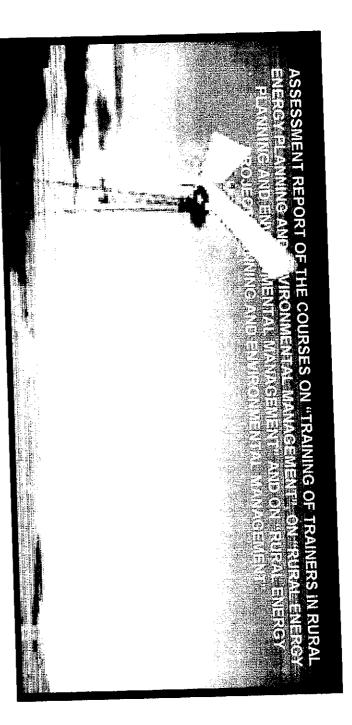


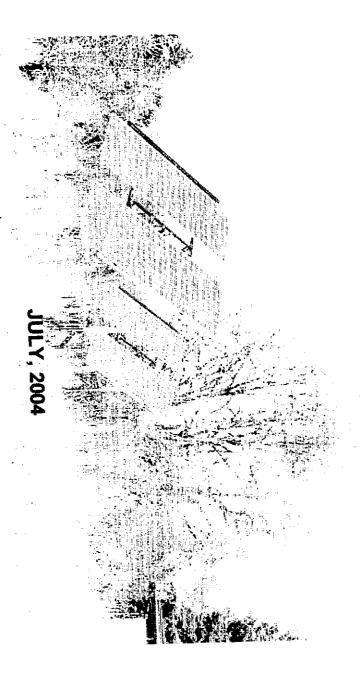




REPÚBLICA DE MOÇAMBIQUE MINISTÉRIO DOS RECUISOS MÍNERAIS E ENERGIA DIRECÇÃO NACIONAL DE ENERGIA

UNIVERSIDADE EDUARDO MONDLANE EASTE FACULDADE DE CIÊNCIAS AFRIC DEPARTAMENTO DE FÍSICA INS





ASSESSMENT REPORT OF THE COURSES ON "TRAINING OF TRAINERS IN RURAL ENERGY PLANNING AND ENVIRONMENTAL MANAGEMENT", ON "RURAL ENERGY PLANNING AND ENVIRONMENTAL MANAGEMENT" AND ON "RURAL ENERGY PLANNING AND ENVIRONMENTAL MANAGEMENT"

shortages of traditional fuels, such as wood, are due to increased population pressure The countries of the Southern African Development Community (SADC) region are facing severe and interrelated problems SADC region depend on wood fuel for domestic use, and also many agro-processing on land, biomass and other limited resources. About 80% of the population in the new and intensified production processes aggravate the degradation of ecological environmental degradation impede rural development. The environmental impacts of should be oriented to improve demand-side management and enhance the systems. The solution to the shortages of rural energy represent a challenge which effectiveness and efficiency of energy use, in conjunction with the optimisation of priority on rural energy planning and also on strengthening of local institutional fuel supply. Having these facts in mind the SADC energy Ministers have placed high In support of this objective the Technical Administrative Unit (TAU) of the Energy capabilities to plan, implement, monitor and evaluate wood fuel projects effectively. Sector of the SADC community, based in Luanda, Angola, sought funding from the skills required for an analysis of rural energy problems. The Eastern and Southern African Management Institute (ESAMI), based in Arusha, Tanzania, was contracted training programme aiming at introducing planners and managers to the concepts and Netherlands Ministry of Foreign Affairs (DGIS) in order to support the design of a to undertake this activity, supported by the Technology and Development Group of the University of Twente (TDG-UT), from the Netherlands. As a result of the work its implementation started during the past decade. The aim of the courses within the courses in rural energy planning and environmental management was designed and carried out a core curriculum and a training programme comprising eleven separate programme is to introduce planners and managers to the concepts and skills required energy needs should be the starting point, and that they should be analysed within the that if rural energy planning and environmental management are to be effective, framework, which links the different planning elements in a systematic way. It shows The training is job-oriented. The methodology of the courses is based on an overall for analysis of rural energy problems, and to help them to produce effective solutions resources, appropriate energy technology systems, human resources and appropriate context of the physical, social and economic environment found in rural areas. Local energy policies can then be identified. All courses are specifically designed to be require substantial the SADC countries. amounts of wood. Resource They address of energy and environment. the particular rural energy

environmental problems of the SADC region. The courses fall into three broad energy project planning and environmental management - 3 weeks -, social and agrocourses (rural energy planning and environmental management - 3 weeks -, rural technologies - 2 weeks -, energy technology assessment - 3 weeks); (ii) management distinct groups and applications for energy planning and environmental management - 2 weeks -, forestry for energy and environmental management - 2 weeks -, data survey methods gender analysis in energy planning and environmental management - 2 weeks) and weeks). The target group for the courses are professionals working in the broad field (iii) communication courses (communication planning and mass awareness - 2 weeks economists, foresters, engineers, planners and policy makers from government, non--, training of trainers in rural energy planning and environmental management- 3 governmental organisations (NGO's) and private sector. 3 weeks -, solar energy technologies - 2 weeks based on their content: (i) technical courses (biomass and environmental management, including agriculturalists, -, wind energy

that lack of skilled manpower is a factor contributing to this problem. The view of countries was made above. Surveys carried out by different organisations indicate Reference on general problems of energy and environment faced by the SADC many experts in the region is that the lack of rural energy plans is a fundamental and environmental management in the rural areas. Policies and plans are needed to constraint in ongoing national and regional efforts to attain sustainable energy supply trained and resources secured to implement development programmes. and other resources required for implementing the plans and ensure that people are achieve multi-sectoral coordination in rural development and to estimate manpower

Energy planning only came to prominence after the first major oil price rise in 1973, realized that effective energy planning needs an understanding of the entire energy and governments, at first, focused on ensuring secure supplies of strategic commercial energy sources such as oil, coal and electricity. Since then it has been realized that energy use has major environmental impacts, and this environmental system, of which energy demand is vital, if complex, component. It has also been that planning has a rural focus. dimension needs to be incorporated into energy planning. It is also very important

energy problems do not exist. Rural energy planning is a broad-based approach Decision makers have to be aware that simple, single-sector 'solutions' disciplinary perspective towards rural energy planning, and the starting point should assumption in this training course is that decision makers need to take a multibecause it has to match the complexities of rural society. Therefore, an underlying be at the grass roots, rural community level.

involved in rural energy planning and environmental management from government, degree and should have several years of work experience in appropriate disciplines. NGOs and the private sector. Participants should be qualified academically with a The target group for this specific course are decision makers, planners and managers

Training Institute - MEETI, from Johannesburg, South Africa. Both MEETI and These courses have been implemented in English language since the past decade by ESAMI, from Arusha, Tanzania, and by the Minerals and Energy Education and the Eduardo Mondlane University (UEM) to organise the courses in Maputo in ESAMI subcontracted the Renewable Energies Research and Training Programme of countries in the SADC region, namely Angola and Mozambique. Portuguese in order to enable a full participation of the two Portuguese-speaking

the period 2002-2003 for participants from Angola and Mozambique, namely: Three courses were delivered in Portuguese, with a duration of three weeks each, in 2. Contents of the Courses Delivered

- number of participants of 23, being 8 from Angola and 15 from Mozambique; Management, which took place from 15 July to 2 August 2002 with a total Training of Trainers in Rural Energy Planning and Environmental
- from 26 May to 13 June 2003 with a total number of participants of 24, being 8 Rural Energy Planning and Environmental Management, which took place from Angola and 16 from Mozambique;
- Rural energy Project Planning and Environmental Management, which took place from 18 August to 05 September 2003, with a total number of participants of 30, being 8 from Angola and 22 from Mozambique. number of

Next sections describe the contents of each course.

of Trainers in Rural Energy Planning and Environmental

The course is arranged into three modules. Module 1, which is on Introduction and the energy and environmental management sectors. Module 2 on Training Cycle Overview, presents papers, which demonstrate the breadth of topics, which make up carrying out a training course; this provides the participants with practical advice on Module 3, which is the last one, contains practical assignments and guidelines for presents participants with the skills they will need to become effective trainers. elaborated a self-contained course manual on Training of Trainers in Rural Energy the organising and delivery of a course. ESAMI in collaboration with TDG has Planning and Environmental Management. The Renewable Energies Research and field visits: one to Liquáti, a rural area located some 120 Km South of Maputo and The course was conducted according to the mentioned programme, which included Training Programme, who translated the manuals, made the present course possible

smelter in Beloluane, 20 km from Maputo. the second one to Mozal a big state of the art and recently installed aluminium

2. 2 Rural Energy Planning and Environmental Management

environment facing SADC countries. The next three modules, Data Needs and Module 1, Introduction and Overview, presents the key issues in energy the skills and the tools, which planners need to address these key issues. In the final Survey, Energy Planning, and Environmental Management, review the information, manual on rural energy planning and environmental management. The Renewable operate. ESAMI in collaboration with TDG has elaborated a self-contained course policy and institutional context in which planners and decision makers have to module, Energy and Environmental Policy and Institutions, the focus is on the broad Energies Research and Training Programme, who translated the manuals, made the programme, which included a field visit to Mahau, Matutuine District, a rural area present course possible. The course was conducted according to the mentioned located some 120 Km South of Maputo

the SADC countries and the obstacles to be removed for the success of rural energy course manual. Module 1, Introduction and Overview, presents the main problems in The course is arranged into six modules, which are linked together as explained in the programmes. The participants learn some tools and approaches for a more effective 2.3 Rural Energy project Planning and Environmental Management energy project planning, which are dealt with in a more detailed manner in the participants, which is: "a good identification of the problem and a well structured Energy Concept, is an opportunity given to the participants to review the basic concepts on Physics and Technologies related to energy. Module 4, Evaluation of concepts to be used by the participants in the project planning. Module 3, Basic following modules. Module 2, project planning are essential for its success". Energy Technologies, the aim of this module is the presentation and discussion of tools for the evaluation of energy technologies, with special focus on economic management. The concepts of activity planning and structuring of a time schedule as other criteria. Module 5, Project Implementation, this module evaluation of energy projects as well as the environmental impact assessment and broad policy and institutional context in which planners and decision makers have to well as the monitoring of the projects have special emphasis in the present module techniques of project management and includes some exercises on human resources manual on rural energy planning and environmental management. The Renewable operate. ESAMI in collaboration with TDG has elaborated a self-contained course Module 6, Energy and Environmental Policy and Institutions, the focus is on the programme, which included a field visit to Mafuiane, Namaacha District, Mahubo present course possible. Energies Research and Training Programme, who translated the manuals, made the The course was conducted according to the mentioned Project Planning, leaves a clear message to the '. This module offers practical tools and

Maputo. Massaca, Boane District, all rural areas located in a 100 Km radius from

of the manuals on "Training of Trainers in Rural Energy Planning and Environmental The preparation of the courses comprised basically two activities: (i) the translation "Rural Energy Project Planning and Environmental Management" management", on "Rural Energy Planning and Environmental management" and on activities. The first activity has been carried out during the period going from July inputs into the courses and also to make the links with the national directorates of suitable places for running the courses, to identify and invite facilitators to give their prepare the training activities. The organising commission had the task to identify Angola and Mozambique in order to provide participants. English into Portuguese Then an organising commission has been set up in order to and (ii) the organisation of the training

from Mozambique), and 10 by a grant provided by the Norwegian Agency for a grant provided by DGIS via ESAMI (for eight participants from Angola and seven The course were scheduled for 25 participants each, 15 of which would be funded by 4. Funding of the Courses International Cooperation (NORAD) via DNE (only for Mozambican participants). People outside the number of 25 ahould find theit own means to finance the course.

of female participants, as according to the traditional division of work they are One important objective to be achieved in this training activity is a good involvement identifying participants was given to the national directorates of energy of both activities a target of 40% of participation of women was exceeded. The task of responsible for providing fuel for domestic use. In average in the three training countries. The final statistics of participation in each of the training activities, in terms of country of origin and sex is presented in the tables below.

Management 5.1 Training of Trainers in Rural Energy **Planning** and Environmental

	Table5.1.1 - List of Pa	
Darticinant	of Participants	

Tables	Tables. 1.1 - List of I with the purity	Country	Sex
	Participant		female
		bique	male
2	a Nhanturido		male
ယ		Angola	male
4		Mocambique	female
5		Mocambique	male
တ	Euclides Rego Segredo Dias		

Assessment Report of the Courses on "Training of Trainers in Rural Energy Planning and Environmental Management", on "Rural Energy Planning and Environmental Management" and on "Rural Energy Project Planning and Environmental Management"

		23 Suzana Augusta de Meio	
female	Angola	22 Sota Alberto Dorive	
male	Moçambique	1	
female	Angola		
female	Moçambique	1	
male	Angola	18 Ofélia Simão	
female	Mocambique	17 Norte Luali	
male	Mocambique	16 Newton Jorge Manguella Clavo Calling	
male	Angola	15 Miguel Francisco Pedro Locola	
male	Mocambique	14 Maria Vitória de Sousa	
female	Angola	13 Júlio Jolamo Istriprio	-1
male	Moçambique	12 José Nelson Mapileie	
male	Mocambique	11 José Fernandes Queinas	
male	Mocambique	10 João Alberto Jose	
male	Mocambique	-	ဖ
female	Moçambique		8
female	Moçambique	7 Francisco de Maila de Meiloco Facco	7
male	Angola	randipaire Vasconcelos Júnior	
Sex	Country		

Table 5.1.2 — General Statistics of Participants

Table 1.1 General Sumsums of a series		
	Number	Percentage
	3	100%
True Number of Participants	5	910/
Old Milliper of Langiparity	ထ	35%
Angolans	À	65%
	=	
Mozalibicaria	တ	39%
Female	14	61%
Male	<u> </u>	17%
Tomolo Appolans		
Ternale Angolaria	ייט	22%
Female Mozambicans	ď	

N) Charietics of Participants by Country (Angola)

I able 3.1.3 - Summer of	Number	Percentage
	8	100%
Total Angolan Darlic Darlis		100/
	4	50%
Total Angolan Male Paruciparus		50%
Tomolo Dorticipanto	4	0070
Total Angolan Felliale Failurpailu		

ď Statistics of Participants by Country (Mozambique)

Number Percent	Number	Percentage
	15	100%
Total Mozambican Failudpailis	10	67%
Total Mozambican Male Failucipality	رن ا	33%
Total Mozambican Female Failudpailio		

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5.2 Rural Energy Planning and Environmental Management

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Table 5.2.
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Table 5 2 1 - List of Participants		
	Sex	0,910
Alhertina Lisboa	female	Moçambique - Italiani Carro
	female	Moçambique - Mapuro
3 Argentina da Glória	female	Moçambique - Maparo
- 1	female	Moçambique - Niassa
	female	Moçambique - Mapuro
	female	Moçambique - Maputo
6 Candida Zila	female	Angola
7 Clara Sanches	fomolo	Mocambique - Cabo Delgado
8 Emília Fumo	male lettiate	Mocambique - Gaza
9 Euclides Rego Dias	- laid	Mocambique - Maputo
10 Fátima Cangi		Mocambique - Manica
11 Henure Mudoro Matene	main	Angola
12 João Gouveia Ngunza	asolo di	Mocambique - Maputo
13 Júlio Tsimpho	Haid	A 200 a
14 Lombo Matusiwa	120	A Section of the sect
- 1	mare	Aligora Tota
	female	Moçampique - i ete
	male	Angola
1	female	Moçambique - Sofala
	male	Angola
	female	Moçambique - Nampula
	male	Moçambique - Cabo Deigado
22 Rail Dongama	male	Moçambique - Zambezia
- 1	male	Angola
	male	Angola

Table 5.2.2 – General Statistics of Participants

I Will J. L. L.		
	Number	Number Percentage
The state of the s	24	100%
Otal Nullibel of Landacies	,	330/
Angolans	α	3370
	1 6	67%
Mozalibicans	13	50%
remale	i	000
	12	20%
Midic		

J 2 w Statistics of Participants by Country (Angola)

Total Angolan Female Participants	Total Angolan Male Participants	Tetal Appalan Particinants	I Will Comment of the
1 12%	7 88%	8 100%	Number Percentage
4%	29%	33%	Number Percentage Percentage (from total)

'n Ç Statistics of Participants by Country (Mozambique)

			I Utdi MUZGI INDOMI I CITTE
27.70	33%	Çī	Total Mozambican Female Participants
24.0%	200		I otal Mozambican Maio Fandara
42%	67%	10	local Mozalitica Mole Deficingnts
		C	Trotal Mozambican tanicipans
0,70	- 18% -	יל	
200/			
Number Percentage Percentage (110111 total)	Percentage		
AND COLUMNATIONS OF THE SECRETARIAN SECURITION OF			I WOR J. L. A - Dimension CJ - The Control of the C

5.3 Rural Energy Project Planning and Environmental Management

Table 5.3.1 - List of Participants

24	23	22	21	20	19	18	17									8			5		3	 	2		Order
Norah Greta Chade	Newton Jorge O. Gamboa	Monica Vicerile Dai Dello	Miguel Antolio Walluc Dogo	Mario Gualter dos Sarios	Maria Aurora Silvestre	Luisa André Cuchamano	Luciano Paulo Vidal	Lombo Matusiwa	Júlio Tsimpho	João Gouveia Ngunza	Joana Mahumane	Henure Mudoro Matene	Fátima Kanji	Euclides Rego Dias	Emília Fumo	Constantino Cachela	Clara Sanches	Cándida Zita	Berlinda Joaquim Arlindo	Arlete Naene	Argentina da Glória	Nhamitambo	Amaral da Conceição	Albertina Lisboa	Name
in Dural Energy Planning and	Tomolo Mozambique - Nampula	Male Angola	Female			Female Mozambique - Maputo	Male Angola		1	Male Angola	Female Mozambique - Mapuro		Female Mozambique - Mapulo		Female Mozambique - Capo Delgado	Male Mozambique - Mapuro		Female Mozambique - Iviaputo	Female Mozamolque - Nassa	Female Mozambique - Gaza	remaie wozaiiilque - iviapuso	Manufo Manufo	Male Mozalibique - Solaia	ie Mozambiano	Sex Oilgin

Table 5.3.2 General Statistics of Participants

		からない とればい はいかい
	Number	Number Pentendye
Table Number of Participants	30	100%
Clai Nullipe, or	8	27%
Angolais	22	73%
Mozambicans	14	47%
remale	16	53%
Male		

of Participants by Country (Angola)

Oldi Aligorati maio :	Tatol Appolan Male Participants	to Appoin Participants 8		Table 3.3.3 — Smishes of 1 minutes
12%	88%	100%	GI I SIVEIMB	
4%	79%	30,0	220/	Serventage (from total)

of Participants by Country (Mozambique)

Clar Wozari Dicar Female Participants	Total Mozambican Male Participants	Total Mozambican Participants			Table 3.3.4 - Summers of a with the
13	 	22	SECOND SECOND		
59%	41%	%OUT	1000	Percentage	SECRETARY CONTRACTOR OF THE PROPERTY OF THE PR
43%	30%	200/	73%	Nimber Percentage Percentage (from total)	

6. Facilitators and Speakers

facilitators from different backgrounds had to be identified. The total number of the Engineering, the Faculty of Sciences, the Centre for African Studies all at the institutions like the Faculty of Agronomy and Forestry Engineering, the Faculty of facilitators and speakers was of 20, representing and/or originating from several Eduardo Mondlane University, the Cahora Bassa Dam (MOZ), the Technical Unit for Management Authority of the South of Mozambique (ARA -Management of Hydropower Dams (UTIP) cover the different subject matters involved in the training activity, (MOZ), Sul), the International Regional

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¹⁰ Assessment Report

consultants. Next sections give the distribution of the facilitators in terms of sex. Cooperation (NORAD), the Ministry of Planning and Finance (MOZ), the Ministry for the Coordination of Environmental Affairss (MOZ), the National Directorate of Unit for the Energy (MOZ), the Ministry of Energy and Water (Angola), as well as independent Conservation of Nature, the Norwegian Agency for International

6.1 Management Training of Trainers 불. Rural Energy Planning and Environmental

Table 6.1.1 -Rural Energy Planning and Environmental Management Course" List of Facilitators and Speakers for the "Training of Trainers in

1130 at 2000 0/ -		
	Country	Sex
College	Mocombigue	male
José Matsinhe	Mincallipidae	malo
Alberto Teamba	Moçambique	מוֹמוֹמ
Alberto i seriloa	Macambique	female
Carla Pereira	Michanicidae	2010
Michague Alberto	Moçambique	
	Mocambique	male
Emesto Malidiale	Moophique	female
Graciete Macuacua	Mindan	مامه
locá i lougaio	Moçambique	Take of the second
Jose Oducio	Mocambique	male
Xavier mulanga		female
Isabel Casimiro	Mocambique	10110

Table 6.1.2 Rural Energy Planning and Environmental management Couse" - Statistics of Facilitators and Speakers for the "Training of Trainers

the Towners Trace Di	Number	Percentage
T 1 X L De Esciliatore	9	100%
Total Number of Facilitations	3	330%
Female Facilitators	3	0/00
I CITICIL I COMMONO	4	67%
Male Facilitators	O	

6.2 Rural Energy Planning and Environmental Management

Table 6.2.1 – List of Facilitators and Speakers for the "Rural Energy Planning and

Environmental Management Course"

1	TAIL LAS CASSAGES COMMENTS CO.		SECTION CONTRACTOR CONTRACTOR CONTRACTOR	
Z		Institution	Country	Sex
			Mocambique	Male
	Alberto I samba	OLIVI - Engineering	Manamhiana	Eemale
3	Anne Krone Helgestad	NORAD	Mocallibidae	CITICIO
3	,	UEM - Sciences	Moçambique	Male
- (Moçambique	Male
1		Coioncos	Mocambique	Male
ঠো	Boaventura Cuamba	OEM - Ocietices	Macambigue	Female
ဘ	Cândida Zita	UEM – Agron. and ⊢orestry	Močaniordos	Ciricio
7	ש	UEM - Sciences	Moçambique	Midio

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Eastern and Southern African Management Institute

Table 6.2.2 – Statistics of Facilitatorsand Speakers for the "Rural Energy Planning

Total Number of Facilitators and Speakers Male Facilitators / Speakers and Environmental Management Course" Female Facilitators / Speakers Number 20 13 Percentage 100% 65% 35%

6.3 Rural Energy project Planning and Environmental Management

Table 6.3.1 — List of Facilitators and Speakers for the "Training of Trainers in Rural Energy Planning and Environmental Management Course"

Country	Xac
Mocambique	male
Albaro Tsamba Moçamoique	- 6
Mocambique	male
	male
Moçambique	200
Moçambique	male
Mocambique	female
	male
Moçambique	Haid
	female
	fomple
Feneranca Bias Moçampique	

Table 6.3.2 – Statistics of Facilitatorsand Speakers for the "Rural Energy Planning

Eastern and Southern African Management Institute

Total Number of Facilitators and Speakers and Environmental Management Course" 5 100% 30%

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70%

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Male Facilitators / Speakers

emale Facilitators / Speakers

every week for a weekly evaluation and at the end of the course for a final evaluation. in order to guarantee freedom of expression. The forms were distributed at the end of participants were given evaluation forms, to be filled and surrendered anonymously, The courses were evaluated both by the participants and by the organizers. 7.1 Evaluation by the Participants purpose of providing the participants an opportunity to frankly and openly make a Additionally a meeting was convened on the last day of each course for the sole few remarks about the course, which they did.

A summary of the written evaluations of the participants is attached hereto

outstanding comments were made, which are presented below: unanimously considered the courses useful and well conducted. Some common and Both in the written evaluations as well as in the referred meetings the participants

- appropriate and more fruitful manner; The time was too short to deal with some of the interesting subjects in an
- The presentations of the facilitators were generally good and very good;
- few remaining misspelled words; limited problems to be corrected, like some faint and hardly The manual and other supporting material were considered good, despite some visible pages and a
- participants would like to have more group work sessions; productive, with the merit of bringing the participants together and strengthening gained knowledge by means work sessions and respective of interaction and presentations practical exercise. were positive and
- aspects learned during the sessions. Participants would generally like to have more The field trips were considered excellent occasions to see on site some particular field trips;

- would like to take part in more courses on the same and related subjects: Participants were keen to implement their knowledge as soon as possible and
- number of the participants, in the second it was reasonable and in the last it was training activity the lunch The lunch services have improved from the first course up to the last. In the first very good. service was not considered good by

only on administrative aspects. For that purpose the organizers held daily and weekly believe that there is room for improvement in the coming courses, especially but not The organizers agree with the critics made in each training activity and are grateful meetings during the courses, comments summarize the evaluation of the organizers: good appraisal. In addition to the above referred the organizers where many annotations were made. The

- The courses were course to course; well conducted, with clearly visible improvements from
- . The level of the participants was achieve the positive results; good and appropriate, which helped
- The participants were enthusiastically mingle and form a strong collective participative and quickly managed to
- ●. The facilitators were committed and had a professional approach, which was essential to the overall rating of the courses;
- registered in the first and second training activities, which nevertheless did not Some weaknesses in the organization, particularly affect the overall rating of the administrative setting; on the catering were
- The organizers made effort in order to achieve a desirable gender balance, which was exceeded in the last two vourses

Budget

75,000.00 for each course contribution of The courses were funded by two institutions, ESAMI and NORAD. ESAMI had a US\$ 54,000.00 and NORAD US\$ 21,000.00,

9. Conclusions and Recommendations

with rural energy planning and environmental management. The purpose of the courses was to provide the participants sufficient skills to deal

time in order to strengthen and update the skills of the participants. The period would The organizers believe that these courses should be repeated after a certain period of well as on the availability of resources. depend both on the assessment to be made in participants countries and agencies as

in order to improve their sensitiveness to the aspects related to rural energy and Short courses should be also organized for decision makers, like National Directors, environment.

Maputo, July 2004

Boaventura Chongo Cuamba

Course Director