

# AFRETEP Project

## Newsletter of the 6<sup>th</sup> February 2012

### WESTERN AFRICA REGION AFRETEP PROJECT WORKSHOP

#### PARTICIPANTS



As the first AFRETEP workshop which took place in Kampala (December 15<sup>th</sup> 2011 Newsletter), the professional level of the participants was very high and they perfectly represented the profile of expert and organization the AFRETEP project aims.

Participant's profile.

Atlas Fellow (Energy and Climate Team)	1
Chief of Industrial Fisheries Research Department	1
Convener of Annual Summer School on Oil and Gas Governance.	1
Director	4
Energy Project Manager	1
Energy specialist	4
Engineer of Studies	1
Head of Division	3
Company manager	1
Ministry General Secretary	1
Laboratory Officer	1
Solar Energy Division Officer	1
University assistant	3
University lecturer	3
University lecturer and researcher	3
University researcher	3

Organization's profile.

Addis Ababa University
Australia Awards for Africa (AAA)
Camco Advisory Services (K) Ltd.

AZHAR International, Ouagadougou, Burkina Faso
Centre for Research in Energy and energy conservation (CREEC), Kampala, Uganda
<i>Centre d'Etudes et de Recherches sur les Energies Renouvelables (CERER)</i> , Dakar, Senegal
Centre for Energy, Environment and Sustainable Development, Kumasi, Ghana
<i>Centre National des Sciences Halieutiques de Boussoura (CNSHB)</i> , Conakry, Guinea
Community Research and Development Centre (CREDC), Benin City, Nigeria
<i>Direction Générale de l'Energie</i> , Lomé, Togo
<i>Ecole Nationale d'Ingénieurs Abderhamane Baba Touré (ENI-ABT)</i> , Bamako, Mali
Energy Commission, Accra, Ghana
Ghana Institute of Management and Public Administration (GIMPA), Accra, Ghana
<i>Institut International de l'Ingénierie de l'Eau et de l'Environnement - Fondation 2iE</i> , Ouagadougou, Burkina Faso
Institute of industrial research, council for scientific and industrial research, Accra, Ghana
Kwame Nkrumah University of Science and Technology, Kumasi, Ghana
<i>Ministère de l'Environnement et de l'Eau</i> , N'Djamena, Chad
<i>Ministère des Ressources Naturelles et de l'Energie</i> , Bissau, Guinea
Ministry of Higher Education, Yaounde, Cameroon
Ministry of Public Works and Natural Resources, São Tomé, São Tomé e Príncipe
Ministry of Renewable Energies, Dakar, Senegal
National Environment Management Authority, Kampala, Uganda
National Public Health Laboratory, Ouagadougou, Burkina Faso
Regent University College of Science and Technology, Dansoman-Accra, Ghana
Tanzania Industrial Research and Development Organization (TIRDO), Dar es Salaam, Tanzania
United Nations Foundation, Washington, United States
<i>Université de Kara</i> , Kara, Togo
University of Benin, Benin City, Nigeria
University of Cape Verde, Mindelo, São Vicente,

Cape Verde
University of Dschang, Dschang, Cameroon
University of Nigeria, Nsukka, Nigeria
University of Yaounde 1, Cameroon

Participants were also a qualified representation of 14 African countries.

1	Burkina Faso	4	8	Nigeria	4
2	Cameroon	3	9	São Tomé e P.	1
3	Cape Verde	1	10	Senegal	3
4	Ghana	6	11	Tanzania	1
5	Guinea B.	1	12	Chad	1
6	Guinea C.	1	13	Togo	2
7	Mali	2	14	Uganda	2

Unfortunately, four colleagues sent us a last minute cancellation.  
Participants were welcomed by Mr M. Mori, Head of infrastructure Dpt. of the European Union Delegation to Burkina Faso, by Ms M. Bado, CEO of the *Fonds de Développement de l'Electrification au Burkina Faso*, by Mr F. Sempore, directeur of the *e-Education Center, Fondation 2iE*, and by Mr U. Tromboni, the AFRETEP project coordinator.



Left to right Ms M. Bado, Mr M. Mori, Mr U. Tromboni and Mr F. Sempore

Participants were granted certificate in workshop successful attending. Dr Philippe Girard, director of the school *Sciences et technologies de l'Eau, l'Energie et l'Environnement* and scientific advisor of the *Institut International de l'Ingénierie de l'Eau et de l'Environnement - Fondation 2iE* attended the ceremony (on the right-hand side). More pictures in AFRETEP WG.

## TRAINERS

Highly qualified was also the participation of the trainers: Dr T. HULD and Dr N. Scarlat, officers of Joint Research Centre Italy, Dr Y. Azoumah, Head of Solar Energy and Energy Saving Laboratory

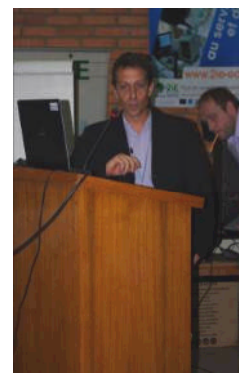
(SEESL) at 2iE Foundation, Dr J. Blin, Head of Biomass Energy & Biofuel Laboratory -LBEB at 2iE Foundation and Dr F. Kemausuor, researcher at the Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.



Dr N. E. Mbaka, University of Dschang, Dschang, Cameroon



Mr L.B. W. Da Conceição Neto, Ministry of Public Works and Natural Resources, São Tomé, São Tomé e Príncipe



Left to right Dr N. Scarlat and Dr J. Blin



Left to right Dr Y. Azoumah and Dr T. Huld



All presentations are at member's disposal in the AFRETEP WG by clicking the CAPACITY BUILDING main menu.

Dr F. Kemausuor

## AGENDA

### 7<sup>th</sup> November 2011

- Opening session
- GIS based assessment for distributed PV electricity. Lecturer: Dr T. Huld. JRC expert.

### 8<sup>th</sup> November 2011

- PVGIS computer laboratory. Lecturer: Dr T. Huld. JRC expert.
- PV panel discussion. Case studies. Chairmen: Dr T. Huld and Dr Y. Azoumah.

### 9<sup>th</sup> November 2011

Site visit:

- Jatropha oil mill plant, visit of the mill, soap unit and biodiesel plant.
- 2iE laboratories and solar-PV diesel hybrid pilot plant

### 10<sup>th</sup> November 2011

- European experiences in bioenergy resource mapping, sustainability criteria. Lecturer: Dr N. Scarlat. JRC expert.

- Technical potential for biofuel in Africa. Lecturer: 2iE Foundation expert Dr J. Blin.
- Biomass potential in Africa and African experiences. Lecturer: Dr F. Kemausuor. KNUST expert.

### 11<sup>th</sup> November 2011

- BIOENERGY panel discussion. Case studies. Chairmen: Dr Nicolae Scarlat, Dr Joël Blin and Dr Francis Kemausuor.
- CONCLUSIONS and EVALUATION. Time to compile questionnaires. Certificates.
- Closing session.

## CASE STUDIES

Colleagues who attended the first workshop which took place in Kampala suggested giving trainees the opportunity to present personal experiences. So we arranged two Panel Discussions focused on PV and Bioenergy. Several participants presented national case studies; see below. All presentations are at member's disposal in the AFRETEP WG by clicking the CAPACITY BUILDING main menu.

## SITE VISIT

We spent a day visiting an interesting biomass facility and 2iE's research laboratories.

Mr Larlé Naaba Tigré, Minister of the Communications of the King Moogho Naaba and Member of the Burkinabe Parliament, saw workshop participants to visit his firms.

We started with *BELWET Industrie*, where they



produce oil and soap from jatropha and other bush seeds; then *BELWET bio carburant*, where they produce biodiesel from the jatropha oil and finally *BELWET plantation*, where they farm the biomass raw material and also cotton, cereal and poultry as additional workers' income for keeping the cost of biomass low.





Not far from Ouagadougou the *Institut International d'Ingénierie de l'Eau et de l'Environnement (2iE)* has a research site with some interesting projects on solar PV and bioenergy. Dr C. Brunschwing saw the participants to the *Laboratoire Biomasse Energie et Biocarburants*.



## ORGANISATION AND SERVICES

Workshops organization is a task of the AFRETEP project. AFRETEP is a part of a bigger project named RENAF.

Development and Cooperation-EUROPEAID (DEVCO) and Joint Research Centre (JRC), both Directorate General of the European Commission, are the RENAF project sponsors while the Renewable Energy Unit (REU) of the Institute for Energy and Transport (IET) of JRC is in charge of the project. IET/REU has contracted a private company CECOFORMA SA to arrange the logistics. IET/REU and CECOFORMA, through Mr M. Ivor the event-coordinator, have been well supported as co-organiser by the 2iE Foundation which is also an AFRETEP's partner.

The workshop was supported by a simultaneous interpreting service provided by the International Language and Translation Centre (ILTC), Ouagadougou.



Right to left Mr D.J.G. Konseibo, Director General of ILTC, and Mr C. Francis



The whole workshop has been video-recorded by *Productions Tam-Tam*, Ouagadougou.

Mr R. Batinan, Productions Tam-Tam

## WORKSHOP EVALUATION

### Workshop content and Methodology

	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
My expectations were met*	15	9			
The objectives specified in the workshop program were met.	17	8			
This course was relevant to my work/career	20	5			
The level of the course was appropriate	10	14	1		
The workshop was paced appropriately.	8	16	1		
The length of the course was appropriate.	12	10	2	1	
The course offered sufficient examples/exercises.	10	13	2		

### Trainer/ Facilitator

	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
The trainers have a good knowledge of the topic	18	5			
The trainers were good communicators^	10	12	1		
The trainers were attentive to the needs of the participants^	9	13	1		
The trainers were well prepared°	13	9			
The trainers had good language skills^	9	13	1		

### Learning resources

	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
The course provided me with the sufficient additional resources^	12	9	1	1	
There was a good balance between theory and practice^	5	15	3		
The workshop material was presented in a clear and organized manner^	12	10	1		
The field visit was well organized and provided good example of the topics presented during the theory lessons^	13	10			

### Organization and Logistics

	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
The pre-workshop administration was efficient and informative.	20	5			
I am satisfied with the organization during the workshop	16	9			
The workshop facilities were appropriate and satisfactory.	16	9			
The equipment was appropriate	15	9	1		
The catering arrangements were appropriate and satisfactory.	9	14	2		

### General comments

	Excellent	Very good	Good	Average	Poor	No comment
My overall evaluation of this training is	10	13				2

\* One didn't comment

^ Two didn't comment

° Three didn't comment

## SPECIAL CREDITS

The workshops scientific organization was in charge of Dr S. SZABO, project leader and scientific officer at IET/REU in Ispra, Italy.

Dr Irene PINEDO PASCUA, scientific officer at IET/REU, supported the scientific organization and arranged the case study sessions; moreover she made updated the AFRETEP Working Group website with all documents and presentations.

## CASE STUDIES LIST

Lightingnigeria' pilot photovoltaic project-progress report	Mr S. Agbo	Nigeria	University of Nigeria, National Centre for Energy Research and Development
Evidence-based barriers to large-scale adoption of PV Solar Lanterns in Rural Namibia.	Mr I. Onah	Nigeria	Sustainable Energy & Climate Fellow (Atlas Corps), United Nations Foundation
Deployment of Solar Lighting System in Rural Ghana- Case Study Obodanase, Eastern Region.	Mr K. Ampomah-Benefo	Ghana	Institute for Industrial Research, Council for Scientific and Industrial Research
Photovoltaic applications in remote villages of the West and North West Regions of Cameroon	Pr N. E. Mbaka	Cameroon	University of Dschang
DC/AC Inverter for Household Applications	Mr E. N. Mbinkar	Cameroon	University of Yaounde 1, Département des Génies Electrique et des Télécommunication, Ecole Nationale Supérieure Polytechnique
"Integration of New and Renewable Energies Sources in Islands and Remote Regions."	Pr J. P. de Barros Duarte Fonseca	Cape Verde	National Institute for Technologic Research (INIT), University of Cape Verde
Situation du solaire PV au TOGO	Frère Jean-Pierre Boyodi	Togo	Global Power Vision
Providing Access to Electricity in Rural Communities using PV systems-A case Study of Odighi Community Southern Nigerian	Mr O. O. Godfrey	Nigeria	Community Research and Development Centre(CREDC)
The feed in tariff system. Case study: Ghana	Mr J. Amewu	Ghana	Ghana Institute of Management and Public Administration
Bio ethanol extraction from some tropical crops and the effect of different blends on gasoline quality and engine performance.	Dr J. K. Tangka	Cameroon	Director of Infrastructure Planning and Development University of Dschang
" Des problèmes de l'énergie à la problématique de la biénergie : le cas de la République du Tchad",	Mr S. Dounia	Tchad	Secrétaire Général du Ministère de l'Environnement et des Ressources Halieutiques
Biomass gasification	Mr L. Wilson	Tanzania	University of Dar es Salaam
"Politique bio énergétique du Sénégal : Etat des lieux et Perspectives"	Mr K. Diop	Senegal	Ministere des Energies Renouvelables, Direction des Biocarburants et de la Biomasse
Les Bonnes pratiques en matière d'utilisation des Energies Renouvelables en Guinée	Mr S. T. Diallo	Guinée Conakry	Centre National des Sciences Halieutiques de Boussoura (CNSHB)
Renewable and Sustainable Energy in Mali	Dr A. Mariko	Mali	Ecole Nationale d'Ingénieurs Abderhamane Baba Touré (ENI-ABT)





Mr S. Agbo



Mr I. Onah



Mr K. Ampomah-Benefo



Pr N. E. Mbaka



Mr E. N. Mbinkar



Pr J. P. de Barros Duarte  
Fonseca



Frère Jean-Pierre Boyodi



Mr O. O. Godfrey



Mr J. Amewu



Dr J. K. Tangka



Mr S. Dounia



Mr L. Wilson



Mr K. Diop



Mr S. T. Diallo



Dr A. Mariko