CONCEPT NOTE

Concentrating Solar Power for West Africa: TRAINING and CONFERENCE

Date: 17 to 20 June 2013
Location: Praia, Cape Verde

Training Organized by:

Conference Organized by:

Supported by:

I. Introduction and Context

A. Brief Description

The ECOWAS Centre for Renewable Energy and Energy Efficiency (ECREEE) is organising four-day training on Concentrating Solar Power (CSP) in the framework of the Technical Assistance CENER is providing to ECREEE to assess the potential of CSP in ECOWAS Region from June 18–21, 2013, in Praia, Cape Verde.

Back to back to this training, in cooperation with the Institut International d'Ingénierie de l'Eau et l'Environnement (2iE) from Burkina Faso; Kwame Nkrumah University of Science and Technology (KNUST) from Ghana; and SIREA-ENERGIE (SIREA) from France, ECREEE is organizing the 1st ECOWAS CSP Conference the next 17th, 2013, of June in Praia, Cape Verde.

This conference is part of the activities of the African Union Research Grant Project denominated: Development of a Cost-effective, modular and Dry Concentrating Solar Power for Africa: Design and Test of Components. This project is led by 2ie and ECREEE, KNUST and SIREA are technical partners. Taking advantage of the presence in Praia of the partners of the project, the Steering Committee will be organized also.

B. Program

Monday, 17th June 2013 **CSP Training with CENER**		
Time	**Session**	
09:00	**1**	**CSP Technologies** 1. Introduction to Solar Energy 2. General characteristics and state of the art of the different CSP technologies 3. Main actors and key technology providers 4. Different commercial CSP experiences worldwide 5. Future R&D action lines and perspective 6. Main conclusions of the CSP technology overview
13:00		**Lunch**
14:30	**2**	**Design considerations for CSP plants** 1. Solar resource assessment 2. Software general review for solar thermal power plant simulation *3.* Simple practical case study
17:00		**End of day**
Evening	***in parallel***	***Steering committee of CSP4AFRICA project***

Tuesday, 18th June 2013 1st ECOWAS CSP Conference		
Time	**Session**	
09:00	**3**	Opening and Welcome addresses, *Director General of Energy of Cape Verde and Executive Director of ECREEE*
09:30		Introduction to RE in ECOWAS and CSP, *Mahama Kappiah*, *ECREEE*
10:00		**Coffee break**
10:20	**4**	**CSP Potential in ECOWAS region. Untapped opportunity** Chairman: ECREEE Speakers • CENER, solar resource assessment and CSP potential • SOLAR CUP, KNUST and 2ie • UCAD activities in CSP *Discussion*
11:30	**5**	**CSP Investments and Regulatory Framework in ECOWAS** Chairman: SIREA Speakers • CENER Pre-feasibility study in Burkina Faso • VRA CSP plans • ECREEE: regulatory review *Discussion*
13:00		**Lunch**
14:00	**6**	**Development of a Cost-effective, modular and Dry Concentrating Solar Power for Africa: CSP4Africa** Speakers • 2ie • KNUST • SIREA *Discussion*
18:00		**End of conference**

Wednesday, 19th June 2013 CSP Training with CENER		
Time	**Session**	
09:00	**7**	**Methodology and results for the pre-feasibility study for the installation of a CSTP in Burkina Faso (I)** 1. Introduction: main steps for the methodology to appraise CSP projects 2. Solar resource map of ECOWAS 3. Site selection 4. Typical Meteorological Year 5. Definition of alternatives: systems and components design
13:00		**Lunch**
14:30	**8**	**Practical session**
17:00		**End of day**

Thursday, 20th June 2013 CSP Training with CENER		
Time	**Session**	
09:00	**9**	**Methodology and results for the pre-feasibility study for the installation of a CSTP in Burkina Faso (II)** 1. Optimization process 2. Costs analysis 3. Financial model
13:00		**Lunch**
14:30	**10**	**Methodology and results for the pre-feasibility study for the installation of a CSTP in Burkina Faso (II) cont.** 4. Ranking of alternatives 5. Conclusion and recommendations
17:00		**End of training**

ECOWAS Regional Centre for Renewable Energy and Energy Efficiency

Centre Régional pour les Energies Renouvelables et l'Efficacité Energétique de la CEDEAO

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