



PROVISIONAL WORK PROGRAM

Advance Training Workshop on Concentrating Solar Power (CSP) Technologies for Electricity Generation in Africa

(Organized by AFREC & AUC in Association with DLR, NREA & MIT)

**Tunis, Tunisia
(19-22 December 2012)**

**AFREC
15 September 2012**

**African Energy Commission
(AFREC)**

**Advance Training Workshop on Concentrating Solar Power (CSP)
Technologies for Electricity Generation in Africa**

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Time	Session	Presenter
Day 1 – Wednesday 19th December (DLR Technical Team)		
08:00-09:00	Registration	
09:00-09:30	Opening Remarks: <ul style="list-style-type: none"> ▪ AFREC ▪ AUC ▪ Ministry of Industry and Technology of Tunisia ▪ Honorarium & Gratuity ▪ Group Photo 	Master of the Workshop Dr. Nzobadila AFREC
09:30-10:45	Session 1: <ul style="list-style-type: none"> ▪ DLR and enerMENA Project ▪ AFREC Project 	L. Qoaider H. Elhag
10:45-11:00	Coffee Break	
11:00-13:00	Session 2: <ul style="list-style-type: none"> ▪ Introduction to CSP Technologies – An Overview ▪ Point Focusing Technologies, Central Receiver and Dish/Sterling Systems 	M. Röger M. Röger
13:00-14:00	Lunch	
14:00-15:30	Session 3: <ul style="list-style-type: none"> ▪ Linear Focusing Technologies: Parabolic Trough, Linear Fresnel Reflectors ▪ Solar Desalination 	M. Röger M. Roser
15:30-15:45	Coffee Break	
15:45-17:00	Session 4: <ul style="list-style-type: none"> ▪ Overview of Existing CSP Projects ▪ Overview of EU-MENA CSP Initiatives 	M. Moser M. Moser
Day 2 – Thursday 20th December (DLR Technical Team: Continued)		
09:00-10:00	Session 1: <ul style="list-style-type: none"> ▪ Project Planning and Project Types 	L. Qoaider
10:00-11:30	Session 2: <ul style="list-style-type: none"> ▪ Measurement of Solar Radiation ▪ Solar Resources Assessment and Site Analysis 	F. Wolfertstetter F. Wolfertstetter
11:30-11:45	Coffee Break	
11:00-13:00	Session 3: <ul style="list-style-type: none"> ▪ Project Implementation 	L. Qoaider
13:00-14:00	Lunch	
14:00-15:30	Session 4: <ul style="list-style-type: none"> ▪ Drivers and Barriers for CSP Expansion ▪ Requirements for Large-Scale CSP Deployment 	M. Moser L. Qoaider
15:30-15:45	Coffee Break	
15:45-17:00	Session 5: <ul style="list-style-type: none"> ▪ Yield Analysis ▪ Socioeconomic of CSP Projects 	M. Röger M. Moser

Day 3 – Friday 21st December			
Case Study: Kuraymat 150MWe Integrated Solar Combined Cycle Power Plant (NRE Technical Team)			
09:00-10:45	Session 1: <ul style="list-style-type: none"> ▪ Hybridization and CSP Plants: Concept & Fundamentals ▪ Solar-Gas Hybrid CSP plants 	NREA Experts	
10:45-11:00	Coffee Break		
11:00-13:00	Session 2: <ul style="list-style-type: none"> ▪ Pre-Engineering Phase ▪ Feasibility Analysis and Technology Procurements 	NREA Experts	
13:00-14:00	Lunch		
14:00-15:30	Session 3: <ul style="list-style-type: none"> ▪ Site Selection and Construction Phase ▪ Basic Steps in the Construction Phase 	NREA Experts	
15:30-15:45	Coffee Break		
15:45-17:00	Session 4: <ul style="list-style-type: none"> ▪ Testing and Operation Phase ▪ Problems Encountered and Maintenance Procedures 	NREA Experts	
Day 4 – Saturday 22nd December			
Presentations, Experiences and Case Studies			
09:00-10:45	Session 1:		Country Experts
	1. Tunisia	2. Ghana	
	3. South Africa	4. Zimbabwe	
	5. Sudan	6. Ethiopia	
	7. Central Africa	8. Somalia	
10:45-11:00	Coffee Break		
11:00-13:00	Session 2:		Country Experts
	1. Mali	2. Zambia	
	3. Burkina Faso	4. Chad	
	5. Nigeria	6. Niger	
	7. AUC	8. AFREC	
13:00-14:00	Lunch		
14:00-15:30	Session 3: <ul style="list-style-type: none"> ▪ Mapping Renewable Energy Resources of Africa ▪ Discussion 	H. Elhag	
15:30-15:45	Coffee Break		
15:45-17:00	Session 4: <ul style="list-style-type: none"> • Presentation of the Summary Report of the Training ▪ Distribution of Training Certificates ▪ Way Forward & Closing Remarks ▪ Closure 	Chairperson	
Day 5 – Sunday 23rd December			
Open Day, Departure			