



Agenda: ECREEE GIS Energy Access Planning and RETScreen Training 22 to 26 August 2011, KNUST, Kumasi, Ghana

Day One: 22 August 2011		
GIS Energy Access Planning Training by KNUST		
Location: KNUST, Kumasi, Ghana,		
Time	Session	
09:00	1	<i>Introduction to GIS-based Energy Access Project, Ghana Study</i> 09:00-09:30 Overview of GIS-based Energy Access Project in Ghana 09:30-10:30 Questions/Discussion
10:30		Tea/coffee/cocoa break
12:00	2	11:30-11:50 Discussions on the expectations for the training 11:50-12:10 Introduction to the concepts of the Network Planner Model 12:10-12:40 Running scenarios in the Network Planner Model
12:40		Lunch break
14:00	3	<i>Hands-on training/Exercises</i> 14:00-15:00 Installation and introduction of the Ghana Energy Access Review (GEAR) Toolkit 15:00-15:30 Exploring/Updating data on the GEAR Toolkit
15:30		Snack break
16:00	4	16:00-16:45 Installation of software & course in MS Excel 16:45-17:30 ArcGIS Intro. (Layers, Features, Relative paths and saving maps)
17:30		End of Day One

Day Two: 23 August 2011		
GIS Energy Access Planning Training by KNUST		
Location: KNUST, Kumasi, Ghana,		
Time	Session	
09:00	1	<i>Hands-on training/Exercises</i> <i>Creating/publishing GIS-Energy Access e-maps in ArcGIS</i> 09:00-09:45 Importing Spatial data (e.g. from GPS) 09:45-10:30 Digitizing and Geocoding
10:30		Tea/coffee/cocoa break
10:45	2	10:45-11:45 Spatial analysis 11:45-12:30 Map design
12:30		Lunch break
14:00	3	<i>Hands-on training/Exercises</i> 14:00-15:30 Publishing e-maps
15:30		Snack break
15:45	4	15:45-16:15 Plenary discussions on the way forward 16:15-16:30 Evaluation of workshop, participants 16:30-16:45 Closing remarks by Prof. Abeeku Brew-Hammond
17:00		End of Day Two



Day Three: 24 August 2011		
RETScreen Training on RE&EE Project Analysis by ECREEE		
Location: KNUST, Kumasi, Ghana		
Time	Session	
9:00	1	Downloading, and installation of RetScreen Expected topics of interest – overview of the training course – introduction to RetScreen worksheet
11:30		Tea/coffee/cocoa break
12:00	2	General Walk-through the analysis of a project with RETScreen – climate and energy data –online resources -
13:30		Lunch break
14:30	3	RETs_1: Photovoltaic Energy: Case study: Photovoltaic Electricity Generation Introduction – type of network – off grid, isolated grid – grid connected – central/decentralised systems
16:00		Tea/coffee/cocoa break
16:30	4	Hands-on/Exercise: Renewable Energy Project Analysis and demonstration of calculation of case studies on PV grid-connected- Case studies for ECOWAS countries (e.g. – water pumping) – Group discussions
18:30		End of Day Three

Day Four 25 August 2011		
RETScreen Training on RE&EE Project Analysis by ECREEE		
Location: KNUST, Kumasi, Ghana		
Time	Session	
09:00	1	RETs_2: Wind Energy Technology: Power point presentation - Energy Project Analysis and demonstration of calculation of case studies on Wind power generation
10:30		Tea/coffee/cocoa break
11:00	2	Case Studies: Group work – Discussion of group work - comments
12:45		Lunch break
14:00	3	RET_3: Mini-Hydro Power Generation - Power point presentation – example of case study Case study: Hydro power generation – Group discussions - Project Analysis of case studies from the ECOWAS region to be undertaken by the participants in working groups – Presentation of calculations of case studies by working groups and discussions
15:30		Tea/coffee/cocoa break
16:00	4	RET_4: Thermal Energy Analysis Power point presentation – Solar Thermal heat – Case study –Group discussions RET_5: Biomass based combined heat and electricity generation
18:30		End of Day Four

Day Five 26 August 2011		
RETScreen Training on RE&EE Project Analysis and Appraisal		
Location: ECREEE Secretariat		
Time	Session	
09:00	1	EE_1: Energy Efficiency in buildings – Lighting Case study: Group discussions - Comments
10:30		Tea/coffee/cocoa break
11:00	2	EE_2: Energy Efficiency – Ventilation – Air Conditioning Power point presentation – case studies
12:30		Lunch break
13:30	3	Briefing and instructions to the training institutes and NFIs on the follow-up trainings in 2012. Assign preparatory works and helpful materials for the curricula development.
15:30		Tea/coffee/cocoa break
15:50	4	Certification Exams (exam available in French and English)
19:00		End Day