



EnR'Afrique PRESENTATION

- ✿ **EnR'Afrique is a leading consulting firm specializing in renewable energy (RE), Energy Efficiency (EE)**
- ✿ **EnR'Afrique develops a global offer orientated toward sustainable development goals**

Main location: Residence jassim , 6 rue ain chiffa Bourgogne 20000 Casablanca Maroc

Training center location : Technopark Casablanca





EnR'Afrique PRESENTATION

- ✿ **EnR'Afrique offers training continuing program for practicing professionals in the energy industry**
- ✿ **EnR'Afrique offers training continuing program for companies**
(Sustainable Development, Green IT, Carbon Footprint...)
- **Enr'Afrique offers a Renewal Energy Training (Master) to E.n.i.m. university (National school of Mineral Industry)**

www.enrafrique.com

www.enrmaroc.com



TRAINING CONTINUING MODULES

- ✿ Solar electricity photovoltaic: Grid-connected & Off-Grid
- ✿ Solar Thermal Energy
- ✿ Small wind energy systems
- ✿ Geothermal energy (PAC)
- ✿ Photovoltaic project management
- ✿ Energy Efficiency buildings(HQE)
- ✿ Sustainable Development
- ✿ Green IT
- ✿ Carbon Footprint

http://www.enrafrique.com/calendrier_formation_energie_renouvelable.php

PEDAGOGIC PHOTOVOLTAIC PLATFORM



1 MGw



PV modules : Polycrystalline , Monocrystalline, Amorphoues

Configuration Systems : Grid connected and off Grid

EnR'afrique inaugurated a first Renewal Energy training center in Morocco on 1 June 2011



PEDAGOGIC THERMAL PLATFORM



Thermosyphonic



Combined solar hot water





EnR 'Afrique PEDAGOGIC PLATFORM

The technical platform has been installed with our partner
SUNSET SOLAR

EnR'Afrique is a distributor of sunset solar products



SUNSET Energietechnik GmbH

<http://www.sunset-solar.de>

RENEWABLE ENERGY AND CAPACITY BUILDING TRAINING REQUIREMENTS

For large scale, sustainable development of renewable energy in Africa will focus training programmes that will specifically meet the target needs (RE master plan) of each country will be vital

- **Develop the capacity through sustainable training and support systems needed**
- **Elaborate a common Africa training program (EXP EUREM)**
- **Carried training plan by diverse private and public organizations**
- **Deploy an energy management certification program for professionals energy industry**

AFRICA TRAINING PRIORITY ACTIONS

➤ National training-employment sector study 2011 - 2020 (Public , Private)

Elaborate a forecast training plan and employment needs assessment

The training plan is expected to be a “rolling” plan that is reviewed periodically and extended

➤ Training of trainers

Upgrade the skills of teaching staff at local technical training institutions

➤ Sharing african Experience

Provide feedback (**AREA networking**) regarding the performance of system components, training... will in turn disseminate experience to other countries (Master plan , Renewal energy Training center , RE platform, training program , suppliers, ...)

IN AFRICA YES WE CAN



AFRICA TRAINING OBJECTIVES

- RE training will promote a positive experience and training new approach on energy matters in Africa
- RE training will develop based on real projects that use best-practice applications with indicators **ENERGY SAVING AND CO2 REDUCTION (Tax carbon)**
- RE training will implement a new qualification concept and will create a new feasibility studies for production specific energy efficiency measures and will construct energy evaluation technical for potential project implementation.
- RE training will provide planned training development to support the rapidly increasing needs foreseen in Africa (exp Morocco increasing renewal energy to **42 %** by 2020 Wind = 2000 MW, Solar =2000 MW, Hydro= 2000 MW)
- RE training will train students to fill the gap between the growing of renewal energy industry in Africa and local renewal energy expertise and the skill available in the job market (from technician level to engineer level)

RENEWABLE ENERGY FOR AFRICA = access to clean energy and growth local economic = OPPORTUNITY



EUREM EnR'Afrique MOROCCO LICENCE

CONTENT OF EUREM Modules

- Energy purchase and trade, energy laws, emission trade
- Project management
- Cost-efficiency calculations
- Energy data management/load management
- Energy fundamentals
- Energy efficient buildings
- Heating
- Process heat, steam, heat recovery
- Cogeneration / Combined heat & power
- Air conditioning
- Chilling
- Electrical engineering, Electrical drives
- Light
- Compressed air
- Solar technology
- Energy from biomass



THANK YOU

Participer à la lutte contre les changements climatiques
Ensemble sauvons notre planète et réduisons
nos émissions de gaz à effet de serre



RAISON

 enr'AFRIQUE

On n'hérite pas la terre de nos ancêtres,
on l'emprunte à nos enfants

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