

Technical and Vocational Training and Education for the Renewable Energy Sector in Africa

**Developing vocational training activities in the framework of the
Africa-EU Renewable Energy Cooperation Programme (RECP)**

16-17 October 2013
Hotel Cardoso, Maputo, Moçambique

Organised by the
EU Energy Facility Partnership Dialogue Facility (EUEI PDF)

RECP vocational training and higher education activities are currently supported by:

Technical and Vocational Training and Education for Renewable Energy in Africa

The **Africa-EU Renewable Energy Cooperation Programme (RECP)** aims at **developing renewable energy markets in Africa**. With a focus on (1) Policy Advisory Services, (2) Private Sector Cooperation, (3) Project Development and Flagship Investment Projects, it now also starts activities in the area of **(4) Technology, Innovation, and Capacity Development, which includes technical and vocational training**, implemented by the **EU Energy Initiative Partnership Dialogue Facility (EUEI PDF)**.

The need for **Technical and Vocational Training and Education (TVET)** in the renewable energy sector in Africa is well-documented. As part of its Action Area 4, the RECP therefore intends to initiate **support to TVET institutions** - a limited number in the first instance - in order to strengthen or set up vocational training structures and institutions focussing on renewable energy to cater for the demand for technicians in the sector.

Activities supported may include:

- ☐ Train-the-trainer programmes,
- ☐ Facilitation exchanges of lecturers and students,
- ☐ Curriculum development,
- ☐ Course and course material development,
- ☐ Facilitation of regional exchange on vocational training.

The workshop has the following objectives:

- ☐ Exchange on **vocational training** activities for renewable energy market development in Africa and the **need for support interventions**
- ☐ Share **successful examples** and experience of TVET in the renewables sector in Africa,
- ☐ Identify interested partners and potential activities for the RECP,
- ☐ Feedback on the approach to TVET to determine where RECP can provide most value added.

Any RECP-supported activities would build on existing partner structures, and labour market and capacity assessments, which will be undertaken prior to starting projects.

The workshop will bring together:

- ☐ Decision-makers in national ministries (Energy, Education, Labour, etc.),
- ☐ Decision-makers in vocational training institutions,
- ☐ Private sector in the field of renewable energy and training,
- ☐ International experts in the field of training and renewables and development partners.

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Programme Day 1 – 16 October 2013

08:30-09:00	Registration at conference venue
09:00-10:00	Welcome and opening remarks <ul style="list-style-type: none"> • Welcome (Dr Miquelina Menezes, FUNAE, Mozambique) • Training and energy activities in Mozambique (Dr Mário Batsana, FUNAE) • Africa-EU Renewable Energy Cooperation Programme (Peter Cattelaens, EUEI PDF)
10:00-10:30	Setting the scene: Vocational Training in the renewables sector in Africa <ul style="list-style-type: none"> • Overview (Dr Joerg Fromme, Consultant to EUEI PDF)
10:30-10:45	Coffee break
10:45-12:30	Experience in Vocational Training for (renewable) energy in Africa <ul style="list-style-type: none"> • Mozambique: Training activities for Solar PV (Zito Arnaut Joao Sande Junior, GIZ AMES-M) • Southern Africa: SOLTRAIN (Dr Zivayi Chiguvare, Polytechnic Namibia) • Kenya: Vocational Training for PV (Geoffrey Ronoh, Strathmore University and Cliff Owiti, KERIA, Kenya) Discussion
12:30-13:30	Lunch break
13:30-15:00	Experience in Vocational Training for (renewable) energy in Africa (ctd.) <ul style="list-style-type: none"> • South Africa: Wind energy training Centre (Manfred Dutschke) • Ethiopia: Solar PV training (Prof Peter Adelman, University of Ulm) • Mali/Burkina Faso: Training for rural electrification (Christine Heuraux, EDF) • Mozambique: Vocational training activities (Julia Giebeler, GIZ Pro Educação) Discussion
15:00-15:10	Coffee break
15:15-17:30	Panel discussion: Private sector perspectives on training for renewables <ul style="list-style-type: none"> • Burkina Faso: Training for RE (Ahmed Ousane Bagre, ZIE) • Tanzania: Training in the wind sector (Arthur Karomba, Serengeti Windpower) • Uganda: The industry's role in training for RE (Dr Esther Mukoza, Uganda Renewable Energy Association) • Bangladesh: Development of a solar energy market (Natalia Aguiar, Microenergy) Discussion
17:30-18:00	Closure of Day 1
18:00	Dinner reception

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Programme Day 2 – 17 October 2013

09:00-09:15	Welcome
09:15-10:30	<p>Vocational Training for Renewable Energy: Needs and Approaches</p> <ul style="list-style-type: none"> Approach, experiences and challenges to vocational training for renewable energy, (Manuel Caetano, Ministério de Educação, DINET) <p>Roundtable discussion with participants from:</p> <ul style="list-style-type: none"> Vocational training institutes Private sector representatives
10:30-10.45	Coffee break
10:45-13:00	<p>Vocational Training within the RECP - From strategy to implementation</p> <ul style="list-style-type: none"> Overview (Dr Joerg Fromme, Consultant to EUEI PDF) <p>Recommendations to the RECP through group work in break-out sessions:</p> <p>Group 1: What are specific support interventions that can assist vocational training institutes in the renewable energy sector?</p> <ul style="list-style-type: none"> Through direct support to institutions (e.g. train-the-trainers, development of courses and course material, etc.) Through indirect support to the sector (e.g. curriculum development with government or associations, regional exchanges, etc.) <p>Group 2: How can women and men be equally encouraged to take up training courses?</p> <p>Group 3: What are specific entry points for support interventions?</p> <ul style="list-style-type: none"> Geographical: rural vs. urban Technological: solar PV, small-scale hydro, wind, biomass? <p>Group 4: How can the needs of the private renewable energy sector be addressed and how can their training activities be complemented?</p>
13:00-14:00	Lunch break
14:00-16:30	Field trip to Instituto Industrial de Maputo (IIM) – Solar PV Training Facilities
17:00	Arriving back at hotel

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Workshop Background

In order to accelerate the use of the vast potential for renewable energy in Africa and meet future energy needs, African and European leaders launched the **Africa-EU Renewable Energy Cooperation Programme (RECP)** at the First High-Level Meeting of the Africa-EU Energy Partnership (AEEP) in Vienna in September 2010. The AEEP is a long-term framework for structured political dialogue and cooperation between Africa and the EU on energy issues of strategic importance, reflecting African and European needs. Through the RECP, Africa and Europe take joint action to help make Africa a prime destination for renewable energy investments. The RECP mobilises the technology expertise and innovation capacity of Europe in order to build knowledge and capacity and support the growth of a new industrial sector in Africa. In addition, the programme makes a significant contribution to green growth by creating jobs, establishing markets and industries with local production and manufacturing capacities in the renewable energy sector.

The **RECP Strategy 2020** has the following **four Action Areas**: (1) Policy Advisory Services; (2) Flagship Investment Projects; (3) Private Sector Cooperation; (4) Technology Innovation and Capacity Development.

While the African renewable energy market holds good promise for the development of a knowledge-based industry, there is a great need to expand local capability to meet the growing demand. Therefore, **Action Area 4** addresses Africa's strong need to sustain on-going and future renewable energy activities by **training a new generation of energy professionals** and by strengthening African research institutions and firms, and their innovation capacity in the field of renewable energy.

While this workshop focusses on vocational training, **activities under Action Area 4 of the RECP Strategy 2020** also include work on higher education:

- ▣ Support executive education programmes on renewable energy particularly designed for policy-makers and private sector stakeholders,
- ▣ Strengthen Masters programmes on renewable energy, focussing on both engineering and policy-making.

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Workshop Organization

Inviting Organisation:

EU Energy Initiative Partnership Dialogue Facility (EUEI PDF)
in the framework of the **Africa-EU Renewable Energy
Cooperation Programme (RECP)**



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