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New Publication | Policy Framework Conditions for Renewable Energies – 23 Country Analyses

Editorial:

Dear Readers,

Over the last few decades renewable energies have had a somewhat awkward role in the debate about developing, especially African countries energy future. "Idealists" on the one hand have tended to regard, for instance solar energy as a magic bullet for providing clean, abundant and cheap energy to the hundreds of millions of people who do not have access to modern energy. "Sceptics", on the other hand, have often expressed concern that renewables were too expensive, too complex, technologically unproven and mainly donor driven. With the new economic reality of an oil price near the three-digits mark the situation has changed completely. The latent energy crisis in Africa and other continents with its adverse economic and social impacts is driving an increasing number of governments and businesses desperately and urgently to search for serious alternatives to the conventional energy development path.

In this edition of our GTZ-Energy Newsletter we are happy to share with our readers, once again, examples of innovative renewable energy options, plus related publications and conferences. And once again, the cases presented in this newsletter clearly illustrate that investment in renewables is not just a question of finance, but also requires policy innovation and investment in human and institutional capacity.

Happy Reading!!!

The Editorial Team

01 | New renewable energy law adopted in Morocco: GTZ supports further definition

Since late 2006, GTZ, acting on behalf of the German Ministry for Economic Cooperation and Development (BMZ), has supported the Government of Morocco in developing an appropriate policy framework for renewable energies (RE) and energy efficiency (EE). A new law for the promotion of RE and EE was passed in May 2007. It introduces a set of important new regulations for increasing RE use and improving energy efficiency: A target of 1000 MW wind power up to 2012 is fixed (and an overall share of 10% for RE in total primary energy supply as well as 20% in electricity production), Third Party Access is guaranteed, the maximum capacity of RE facilities operated by “Auto-Producteurs” is raised to 50 MW and a tranche of secondary legislation is announced. Detailed ordinances for procedures and tariffs for all RE technologies have to be developed; the building code will be amended with the objective of better efficiency performance and greater use of solar thermal systems for hot water, solar heating and cooling. An ordinance for audits especially in the industrial sector will be another task as well as the development of a biomass master plan. The Centre for the Development of Renewable Energies (CDER) will be transformed into an Agency for Energy Efficiency and Renewable Energies (Agence pour le Développement des Energies Renouvelables et l'Efficacité Energétique, ADEREE) and will focus more on the implementation of government programmes by branching out with subsidiaries in all major Moroccan cities. Within a new 2-year project starting in January 2008, GTZ is supporting the Moroccan Government and CDER by providing consultancy and other inputs.

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02 | Cooperation between GTZ and German energy utility for sustainable palm oil

Recently, GTZ signed a contract with the German municipal utility *Stadtwerke Schwäbisch Hall* to develop an innovative way of securing supply with sustainably produced plant oil from which to generate “green” electricity in Germany. Stadtwerke Schwäbisch Hall provides energy services, as well as water, gas and heat services. The municipal utility is already producing energy in combined heat and power (CHP) facilities that run on palm oil.

GTZ and Stadtwerke will be elaborating and testing an approach to produce sustainable plant oil and establish suitable criteria and indicators. These criteria and indicators will be tested at several producers of plant oil in developing countries worldwide. The concept of sustainability embraces the conservation of biodiversity and water services, inclusion of smallholders in the production process, the requirement of positive carbon balances etc. Through these development measures, GTZ and Stadtwerke Schwäbisch Hall are making important contributions to the international debate on bioenergy certification, and are contributing to the sustainable production of this form of energy.

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03 | PPP with German INENSUS and EWE AG for rural electrification in Sénégal

In order to facilitate an innovative technological approach for rural electrification in Sénégal, GTZ has entered into a Public-Private Partnership (PPP) with the two German companies INENSUS and EWE AG. INENSUS (INtegrated ENergy SUPply Systems) GmbH is an engineering company which focuses on innovative solutions for decentralised power supply, especially wind power for mini-grids. EWE AG is one of the largest German energy companies, with core competencies in the efficient management of complex electricity, natural gas and telecommunication networks. Considering the lack of energy access especially in rural areas, and the promising potential of renewables, Sénégal is an interesting market for energy companies and investors, especially for off-grid hybrid (renewable energy) systems. In order to tap this potential and to open up Sénégal as a trailblazer for further investments in West African energy markets, a technologically and socio-economically adapted approach for energy supply in rural areas is crucial.

The project partners INENSUS GmbH, EWE AG and GTZ are jointly moving forward to develop an innovative model for the economically viable use of solar and wind power based hybrid systems in Senegalese rural villages. This will include an initial analysis of existing political, technical and socio-economic conditions in selected villages of the project region. Furthermore, the development of a sound operator model as well as a pilot application of the model is part of the partnership activities.

The successful implementation of the project will have a snowball effect for rural electrification within the country and in other regions of West Africa. More information about the PPP programme commissioned by the German Ministry for Economic Cooperation and Development (BMZ) is available [here](#).

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04 | TERNA Dialogue 2007 focuses on “Integrating Wind Energy into the Grid”

This years GTZ’s TERNA Wind Energy Dialogue was focussing on “Integrating Wind Energy into the Grid”, while the Information Platform for Wind Energy in Developing and Emerging Countries with the German Wind Energy Association (BWE) and the Power Systems Association of the German Engineering Federation (VDMA PS) examined the prospects for the German wind industry in new and so far largely untapped markets. Delegated experts from a total of seven developing countries along with many invited guests from politics, business and industry associations found out about new developments and current challenges relating to the utilisation of wind power. Further information and the conference documentation are available [here](#).

[>| CONTENT](#)**05 | Indian cities approve new policy favouring renewables and efficiency**

The two Indian cities Nagpur and Bhubaneswar have reached a milestone, being among the first local governments in India to adopt an energy policy favouring renewable energy and energy efficiency and committing to a 5-year action plan. Nagpur and Bhubaneswar are part of the Local Renewables Model Community Network project of the ICLEI (Local Governments for Sustainability) initiative. Within the global local renewables network, cities share their expertise and experience on renewable energy and energy efficiency. The network is open to cities and towns around the world that have either already shown exemplary activities to strengthen sustainable energy at the local level and/or are developing into model communities.

The Local Renewables Model Community Network is supported by the German Ministry for Economic Cooperation and Development (BMZ) and GTZ. More information is available [here](#).

[>| CONTENT](#)**06 | Hydropower for productive use and income generation in rural Afghanistan**

The German-Afghan renewable energy programme sponsored by the German Ministry for Economic Cooperation and Development (BMZ) and implemented by GTZ has assisted in the development of three micro-hydropower schemes in Northeast Afghanistan (Badakshan province). The power plants that were funded by the multi-donor Counter Narcotics Trust Fund (CNTF) have capacities of 110, 125 and 450 kW and will supply approximately 5060 households in some 15 villages. Two of the plants have just been completed, and the third is expected to become operational before the end of the year. The project is a cooperation with the Afghan Ministry of Energy and Water (MEW) and involves strengthening the capacities of the staff of MEW’s Department for Renewable Energies. The power plants will be owned by the national utility DABM, but leased out to private operators from Badakshan. They will thus be the first power generation facilities in Afghanistan that are officially managed and operated by the private sector.

In order to give the local population an alternative to poppy production, the project will support the use of electricity for income-generating activities. Small loans will be offered to enable local entrepreneurs to acquire electrical equipment such as mills, welding machines and carpentry tools. Technical training and support for business plan development will be offered as well. Currently GTZ is assisting in the development and implementation of a sustainable management model for micro-hydropower plants adapted to local conditions. More information about GTZ’s activities in Afghanistan please find [here](#).

[>| CONTENT](#)**07 | Upcoming: 3rd World Conference for Renewable Energy, WIREC 2008**

In the spirit of the Bonn 'Renewables 2004' Conference and its follow up in Beijing 2005, the United States will host the third global ministerial conference on renewable energy. The Washington International Renewable Energy Conference 2008 (WIREC), will be held in Washington DC, March 4-6, 2008. It will provide an opportunity to advance renewable energy globally by bringing world leaders together to raise issues, share experiences and best practices, and provide a global platform to highlight and promote strategies for a significant scale-up of renewable energy technology. The U.S. Government co-operates with the Renewable Energy Policy Network for the 21st Century (REN21) and other relevant stakeholders to organize the conference. More information can be found [here](#).

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08 | GTZ facilitates deployment of PV pumping systems for rural water supply

In view of rising oil/diesel prices and declining prices for photovoltaic (PV) modules the question of the relative economic viability of diesel and PV-driven water pumps is gaining new attention. Currently GTZ is conducting a study comparing the costs of the two pumping systems in Africa. A previous analysis in the mid-1990s found the lifecycle costs of PV-driven water supply systems for villages up to 1000 inhabitants to already be competitive compared to diesel systems. It is expected that under current circumstances PV water pumping is competitive even for larger villages.

The study supports activities of the Programme for Photovoltaic Power Systems (PVPS), established as a working group under the umbrella of the International Energy Agency (IEA) in 1999. One of the programme's tasks is to accelerate the deployment of PV systems and foster the use of renewable energies in developing countries (task 9). First results will be published in mid-November at a workshop to be held in Tunis in cooperation with the African Development Bank (AfDB) and IEA-PVPS. More information about the IEA-PVPS Task 9 can be found [here](#).

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New Publication | Policy Framework for Renewable Energies – 23 Country Analyses

Successful renewable energy projects in countries such as India, China and Brazil are encouraging other non-industrialised nations to follow suit. To help interested players gain access to the new markets, the new edition of the TERNA country survey provides detailed information on the energy policy framework conditions for electricity markets and renewable energy in 23 developing and emerging countries.

The TERNA (Technical Expertise for Renewable Energy Application) wind energy programme, implemented by GTZ on behalf of the German Ministry for Economic Cooperation and Development (BMZ), assists partners in developing and emerging countries interested in the commercial exploitation of wind power. More information about TERNA and the latest country survey as well as previous editions can be found [here](#).

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Service

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Editorial Team: Mike Enskat, Stefan Opitz, Regine Dietz
Contact: energy@gtz.de

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