

Dear Readers,

It is our pleasure to present to you the July issue of the GTZ Energy Newsletter. A sustainable energy solution is the pivotal element of our efforts to tackle challenges such as poverty alleviation and climate change. This newsletter provides information on GTZ's work on energy with updates on selected ongoing projects, events and publications. We appreciate your feedback. Feel free to forward this newsletter to interested friends and colleagues! If you have any questions about the projects and events highlighted in this newsletter or GTZ's work on energy in general, please feel free to contact us via email: energy@gtz.de. GTZ's Energy Newsletter is published four times a year (Jan, Apr, Jul, Oct). If you wish to unsubscribe from this newsletter, please use the "unsubscribe" link that will delete your email address from our database (at the bottom of this newsletter).

The editorial team

Energising Development (EnDev) Bolivia
Solar energy for social institutions – EnDev Bolivia receives Energy Globe Award



At the beginning of June the German-Dutch energy programme "Energising Development (EnDev)" in Bolivia was awarded with the national Energy Globe Award for its project "Solar energy for social services in rural Bolivia".

EnDev Bolivia supports municipalities, prefectures and other institutions in planning, designing and tendering of PV and thermo solar systems. Furthermore, EnDev Bolivia finances up to 40% of the technology cost of the system, the other part has to be paid by the municipality. For ensuring correct use and maintenance of the systems the project trains up to three persons in each institution.

So far, more than 28,000 people have benefited from improved energy supply in schools and hospitals. Warm water improves hygiene for students and patients, dishes and laundry are handled much easier. Furthermore, the demand for firewood is reduced and lighting in the evening makes life easier for teachers and nurses.

The Energy Globe Foundation annually rewards innovative and successful projects worldwide which are committed to resource conservation and renewable energy.

For more information please contact Carlos Alba (carlos.alba@gtz.de).

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GTZ Sustainable Management of Resources in Agriculture Agronomic and economic viability of Jatropha in Kenya



The German Technical Cooperation (GTZ) is pleased to release the new study "Jatropha Reality Check – A field assessment of the agronomic and economic viability of Jatropha and other oilseed crops in Kenya".

Biofuels have taken a prominent place in public debate in recent years. In particular Jatropha has received a lot of attention, to an extent where it has been touted as a "wonder crop". However, much of the initial "hype" has faded away. The Jatropha

Reality Check summarizes the actual "on the ground" experience with Jatropha and two possible alternative oilseed feedstocks in Kenya, Castor and Croton. The results show that, at present, Jatropha is not viable neither in monoculture nor as intercrop due to low yields and high costs.

The reasons are manifold: First there is a lack of agronomic knowledge on Jatropha as seed germplasm is largely undomesticated. Second, more inputs and more arable land would be required. Nevertheless, possibilities do exist to produce positive revenues from Jatropha in fence production. In general, from a farmer's perspective, it is more convenient to produce edible oilseeds with an established agronomy and existing, high-value markets.

GTZ on behalf of the German Federal Ministry for Economic Cooperation and Development (BMZ) commissioned and managed this study as part of its efforts to prepare the ground for informed decision-making of policymakers and private investors. It was compiled under the lead consultancy of Endelevu Energy, in close collaboration with the World Agroforestry Centre (ICRAF) and the Kenya Forestry Research Institute (KEFRI). The output is among the first systematic attempts at a stock-taking of actual experiences with oilseed feedstocks at a national level in East Africa.

For further information please contact Jutta Schmitz (jutta.schmitz@gtz.de).

[Jatropha Reality Check – A field assessment of the agronomic and economic viability of Jatropha and other oilseed crops in Kenya \(PDF: 9 MB\)](#)

GTZ Energy-policy Framework Papers

New GTZ Publication: Regional Reports on Renewable Energies – 30 Country Analyses on Potentials and Markets in West Africa, East Africa and Central Asia



Accurate data on resources and potentials is an important prerequisite for the development of RE markets. Equally important is up-to-date information concerning policies, regulation and the broader sectoral investment climate. This is particularly important in regions where information is scarce and where conditions are under rapid transition.

The Regional Reports take this into consideration: comprising 30 country analyses on potentials and market conditions for Renewable Energies – 17 in West Africa, 5 in East Africa and 8 in

Central Asia – the reports provide practical background information on local energy markets in these regions, their market potentials, as well as related investment options. As such, the reports intend to contribute to the mobilization of investments and business activities in Renewable Energies in the assessed countries, and thus help pave the way for a more sustainable energy supply in these regions. The publication is therefore primarily aimed at

- NOTE the DATE: REN21
Renewables Global Status Report 2010 to be released mid July 2010

Recent publications

GTZ Energy-policy Framework Papers
Regional Reports on Renewable Energies – 30 Country Analyses on Potentials and Markets in: West Africa (17), East Africa (5) and Central Asia (8)
December 2009

[Website \(English version\)](#)

GTZ EnDev & Energy policy in development cooperation
What difference can a PicoPV system make? Early findings on small Photovoltaic systems – an emerging low-cost energy technology for developing countries
May 2010

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GTZ Sustainable Management of Resources in Agriculture
Jatropha Reality Check – A field assessment of the agronomic and economic viability of Jatropha and other oilseed crops in Kenya
December 2009

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GTZ Bosnia and Herzegovina
Renewable Energy Potential and RE Project Development within the Municipality of Bihac, Bosnia and Herzegovina
August 2009

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United Nations
The Secretary-General's Advisory Group on Energy and Climate Change (AGECC) – Energy for a Sustainable Future – Report and Recommendations April 2008

[Download PDF 0.32 MB \(English version\)](#)

IEA – International Energy Agency
Deploying Renewables in Southeast Asia – Trends and potentials
2010

interested investors as well as technology and service providers. It also serves as a data base with country-specific insights and key data on renewable energies for other interested actors and stakeholders.

This publication has been put together by GTZ - German Technical Development Cooperation (Deutsche Gesellschaft für Technische Zusammenarbeit GTZ GmbH) with support from numerous country experts. The reports have been commissioned by the German Federal Ministry for Economic Cooperation and Development (BMZ). This series of regional reports is part of the Energy-policy Framework Papers, which are published by GTZ on behalf of the Federal Ministry for Economic Cooperation and Development (BMZ).

The reports are available for download. Please refer to the left column on the relevant GTZ website ([www.gtz.de/en/themen/umwelt-infrastruktur/energie/...](http://www.gtz.de/en/themen/umwelt-infrastruktur/energie/)). In case you would like to receive a CD-Rom containing the full collection of reports, please feel free to contact us (energy@gtz.de).

GTZ Energypedia – connecting knowledge



Energypedia is a wiki* platform full of articles that are jointly written, revised and disseminated by energy experts. The platform provides information and experiences about technologies and approaches related to renewable energy and development aid. It helps to optimize knowledge exchange and joint work among its users around the world. Using energypedia you are quickly updated by reading the relevant "wiki articles".

*A wiki is a collection of websites. Users are not only able to read but also to change content directly in their browser. Wikis allow you to work on joint articles (documents) and tables. In general, the goal of a wiki is to express the experience and the wealth of knowledge of the authors collaboratively (collective intelligence).

Many energy experts of development organizations, local partners and research institutions are already joining us. Visit www.energypedia.info to make your own contribution and become a part of it!

GTZ Brazil Brazil: Solar thermal systems for social housing programme



The Ministry of Cities (Ministério das Cidades) of Brazil issued a resolution for the Minha Casa, Minha Vida – MCMV (My house, my life) programme, which will allow a grant for 40,000 solar thermal units in constructions of housing for social purposes (the size of total amount of the

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GTZ Energy Programme
Afghanistan
GTZ Renewable energy supply for rural areas (ESRA) – Case Studies
2010

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GTZ
Nachhaltige Energie – Mehrwert für Entwicklung und Wirtschaft
2010

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GTZ Section Energy and Transport
Unternehmen. Entwicklung. Energie – Angebote zur Zusammenarbeit mit der Wirtschaft. Kompetenzfeld Energie und Transport
March 2010

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GTZ HERA – Poverty-oriented Basic Energy Services
Carbon Markets for Improved Cooking Stoves – A GTZ Guide for Project Operators
Revised Edition – February 2010

[Download PDF 0.74 MB \(English version\)](#)

IEA – International Energy Agency
Sustainable Production of Second-Generation Biofuels – Potential and perspectives in major economies and developing countries
February 2010

[Download PDF 4.22 MB \(English version\)](#)

GTZ Transport Policy Advisory Services
International Fuel Prices 2009 – Full Version
December 2009
[Download PDF 7.92 MB \(English version\)](#)

GTZ Transport Policy Advisory Services
Towards Technology Transfer in the Transport Sector – An Analysis of Technology Need Assessments

grant is around 40 Mil. EUR). The GTZ, in the context of the "1000 roofs Brazil" project, supported the elaboration of the resolution. The project's objective is to support the implementation of solar thermal plants in selected regions and different sectors in Brazil. Thus, it promotes the use of alternative energy resources for water heating purposes. For this, in the first phase of the project, GTZ focuses mainly on activities that provide consultation of the social housing programme "Minha Casa, Minha Vida". In cooperation with Caixa Economica Federal (CAIXA), the national development bank in charge of the programme's implementation, GTZ supports these activities providing technical and training expertise. Jean Benevides, Director of the Environmental Department of CAIXA, believes that the project will have a great impact in adapting the national social housing programme and other housing projects of CAIXA to climate change issues.

In parallel, the Ministry of Environment (MMA) has set up the "Solar Thermal" working group, involving different ministries, institutions, associations, universities, as well as the GTZ. The task for 2010 is to develop a strategic plan for the dissemination of solar water heating systems using renewable energy as a contribution to the national climate policy. The GTZ supports and facilitates the elaboration of the strategic plan.

(Photo: Social housing programme Minha Casa Minha Vida with solar water heaters, Minas Gerais, Brazil)

For further information please contact Andreas Nieters (andreas.nieters@gtz.de).

GTZ Transport Policy Advisory Services Energy Efficient Transport – Johannesburg is ready for the Soccer World Cup



For the Soccer World Cup, the organizers were expecting thousands of fans from all over the world in Johannesburg. The thousands of visitors do not need to worry about getting to the two stadiums, Soccer City and Ellis Park, in the quickest, safest and most comfortable way as the new "Rea

Vaya" Bus Rapid Transit system is now in operation.

Not only soccer fans benefit from the new "Rea Vaya" buses, the new public transport is also be an asset for thousands of daily commuters, especially the urban poor and those from historically disadvantaged townships, in meeting their mobility needs. Moreover, they do not only save time but also money. A ride on BRT is cheaper than taking one of the minibuses, which was until recently the main mode of transport in Johannesburg city.

Commissioned by the German Federal Government, the Kreditanstalt für Wiederaufbau (KfW) Bankengruppe financed the planning of a new public transport system in Johannesburg. The German Technical Cooperation (GTZ) is advising the City of Johannesburg on planning and construction of its Bus Rapid Transit System (BRTS).

For more information please visit www.sutp.org/brtjohannesburg.

[Download PDF 1.02 MB \(English version\)](#).

Upcoming events

14-15 October 2010
Mexico City, Mexico
[International Cogeneration Seminar in Mexico City](#)

27-29 October 2010
New Delhi, India
[DIREC2010 – Delhi International Renewable Energy Conference 2010](#)

Recommended newsletters

REN21 – Renewable Energy Policy Network for the 21st Century

[REN21 newsletter](#)

European Union Energy Initiative Partnership Dialogue Facility (EUEI-PDF)

[EUEI-PDF newsletter](#)

GTZ Transport Policy Advisory Services

[GTZ Transport News \(German edition\)](#)

To subscribe, please contact Armin Wagner (armin.wagner@gtz.de).

GTZ – International Fuel Prices

[GTZ – International Fuel Prices](#)

To subscribe, please contact Armin Wagner (armin.wagner@gtz.de).

GTZ offers a range of company-wide and subject-specific newsletters listed on GTZ's newsletter subscription page.

[More GTZ newsletters](#)

Links

energypedia – developed by the Dutch-German Partnership Programme Energising Development (EnDev)
www.energypedia.info

reegle – the Search Engine for Renewable Energy and Energy Efficiency (Renewable Energy and Energy Efficiency Partnership –

GTZ Mexico – upcoming event

International Cogeneration Seminar in Mexico City

On 14 and 15 October 2010, an "International Cogeneration Seminar" will take place at the campus of the Instituto Tecnológico de Monterrey in Mexico City.

Purpose of the seminar is to analyze the current status of cogeneration (Combined Heat and Power, CHP) in Mexico, reflecting challenges and barriers for its promotion and use. With this aim project developers, policy makers and financial institutions are invited to this seminar.

With lectures and round tables, four main topics will be covered during the event: strategies for promotion programmes, regulatory aspects for CHP in the local market, alternative financial structures for CHP projects and case studies of successful projects in Mexico. The seminar will be complemented with training sessions to present particular technical issues of cogeneration projects, such as system design, technology overview and selection, economic project evaluation and regulatory aspects.

The seminar is organized by GTZ, InWent and the local agency for energy efficiency promotion (Comisión Nacional para el Uso Eficiente de la Energía, CONUEE) within the framework of the Sustainable Energy Programme, which GTZ implements in Mexico on behalf of the German Federal Ministry for Economic Cooperation and Development (BMZ).

Please direct any information request or lectures proposals to Eng. Ernesto Feilbogen (ernesto.feilbogen@gtz.de).

REEEP & the Renewable Energy Policy Network for the 21st Century – REN21)

www.reegle.info

Renewables Interactive Map (REN21)

www.ren21.net/map

Back issues

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GTZ EnDev & Energy policy in development cooperation

Booklet on experiences with Pico PV systems (solar lanterns) in developing countries



What difference can a Pico PV system make? Early findings on small Photovoltaic systems – an emerging low-cost energy technology for developing countries.

Even under optimistic scenarios more than 1 billion poor people will remain without electricity for another twenty years! Pico PV systems may well be part of a solution, by allowing "pre-electrification". There are several good reasons to be bullish regarding the potential of this emerging off-grid market segment:

- Pico PV prices are coming down fast.
- Pico PV systems are over-the-counter consumer products and don't need specific know-how for installation or O&M. Therefore, distribution has lower transaction costs than for all other grid or off-grid alternatives.
- The welfare gain from electrification at household level is arguably largest after stepping from flame-based lighting to efficient electric lights.
- Consumers do not fear that PicoPV lamps will bar them from future grid roll-out, as they often do in the case of SHSs.

Introducing social, economic and environmental benefits of PicoPV systems, the booklet also points out the assessment of quality and cost. Furthermore, it summarises results of a Pico PV field survey (Bolivia, Nicaragua, Mozambique and Uganda) and illustrates policy and market aspects such as pricing and subsidies.

The publication is available in English and can be downloaded from www.gtz.de/de/dokumente/... (PDF: 1.05 MB).

GTZ Brazil

International Conference on Energy Security and Climate Change in Rio de Janeiro

Currently, energy security and climate change are inter-related issues and have been a contentious issue in many countries. These are broad themes and still generate little consensus among the various sectors involved. This became obvious after the COP-15 summit in Copenhagen held last December, which did not provide answers to many questions relevant to the Climate Change negotiations and the role of energy policies in this context.

In order to spur discussion on these issues and provide possible solutions for pending questions, the Konrad Adenauer Foundation and GTZ in Brazil, with support from the Brazilian Center for International Relations (CEBRI) organized "The International Conference on Energy Security and Climate Change in the post-COP 15", which took place in Rio de Janeiro in April 2010. The conference featured speakers from the BRIC countries (Brazil, Russia, India, China), the U.S., Europe and many national and international guests and deepened the political debate and exchange of ideas between politicians, experts and representatives of governmental and non-governmental organizations. Branca Americana, Secretary of Climate Change and Environmental Quality of the Environment Ministry of Brazil, believes that despite the disagreements of the COP-15, global governance is still the best way to seek change.

For Brazil the issue is especially relevant because although it disposes of relatively clean energy supply, it plans on increasing its energy supply by diversifying the investment in renewable energy as well as by substantially increasing its share of fossil fuels. An important consensus of the event was that the differences among the Parties in Copenhagen were too large to reach any compromise. Already the methodology for calculating greenhouse gas emissions created quite a controversy.

A report of the event, selected presentations and audio files can be download from [www.kas.de/...](http://www.kas.de/).

For further information please contact Dirk Assmann (dirk.assmann@gtz.de).

GTZ HERA – Poverty-oriented Basic Energy Services New! Audio Slideshow "Wood Energy – Africa's Green Energy Future"

GTZ's sector programme for poverty-oriented basic energy services (HERA) has developed an eight minutes audio slideshow to lobby for sustainable wood energy in Africa. The slideshow highlights the modernity and economic relevance of wood as potentially renewable energy source. It presents various project examples of modern supply with wood energy for thermal and electricity purposes and underlines its potentials in the carbon market.

If you are interested in receiving a hard copy of the slide show, please write an email to hera@gtz.de.

UN Secretary General's Advisory Group on Energy and Climate Change (AGECC)

Ambitious but achievable: Universal access to modern energy services by 2030!



The UN Secretary General's Advisory Group on Energy and Climate Change (AGECC) has delivered its cutting-edge report "Energy for a Sustainable Future" in April 2010. The report calls for ensuring universal access to modern energy services by 2030 and reducing global energy intensity by 40 per cent by 2030 as two key goals to end energy poverty and meet the climate change challenge.

Drawing on the report's conclusions the International Energy Agency (IEA), together with the United Nations Development

Programme (UNDP) and the United Nations Industrial Development Organization (UNIDO), convened the workshop "Towards Universal Energy Access: MDGs and Beyond" in May 2010 in Paris. The workshop highlighted the importance of universal access to energy for achieving the Millennium Development Goals (MDGs). Input gathered from this workshop will help shape the 2010 edition of the IEA's World Energy Outlook 2010 which will include a special focus on the role of energy for development and the identification of sustainable pathways towards universal energy access.

Thus, the AGECC report and the World Energy Outlook 2010 will contribute significantly to bringing universal energy access to the agenda of the 2010 MDG Review Summit in New York in September 2010.

[The Secretary-General's Advisory Group on Energy and Climate Change \(AGECC\) – Energy for a Sustainable Future – Report and Recommendations 28 April 2008 \(PDF: 0.32 MB\)](#)

Energising Development (EnDev)

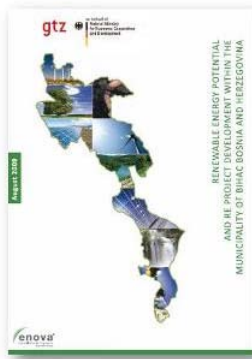
Improving Cooperation: Energising Development Together

The conference "Energising Development Together", 26/27 May in The Hague, brought together all partners of the Dutch Promoting Renewable Energy Programme (PREP) to exchange experiences in the field of access to energy. The Dutch Ministry of Foreign Affairs (DGIS) and Energising Development (EnDev), the implementing programme of the German-Dutch Energy Partnership (GDEP), invited other partners to intensify cooperation. As a good example of successful donor harmonization, GDEP occupies a leading role in international cooperation in the field of access to renewable energy. The success of EnDev lies within its innovative approach; the variety of possible actions creates competition between technologies, countries and projects. Since 2005 more than 6 million people have been provided either with electricity or improved cooking technologies in households.

The event also intensified harmonisation on the implementing level. The front runner EnDev already cooperates with various implementing organizations like NL Agency and SNV. As a result of the event the participants agreed to organize regular meetings in the Netherlands, Germany and the partner countries in the future to continue to discuss topics such as smart financing solutions and private sector involvement. The recently launched platform energylopedia.info offers the opportunity to share knowledge and experience and to intensify cooperation.

For more information visit www.senternovem.nl/energising...

GTZ Open Regional Fund - Energy (ORF-E) Renewable Energy Potential and RE Project Development within the Municipality of Bihac, Bosnia and Herzegovina



The Study of renewable energy potentials in the region of Bihac came up as a result of the initiative of the Municipality of Bihac to take part in the efforts to support the EU 20-20-20 targets (20% reduction of greenhouse emission gasses, 20% of renewable energy in final consumption and 20% energy savings by 2020).

The Open Regional Fund - Energy (ORF-E) supported the study under the assumption that its methodology could serve as an example for other municipalities in South East Europe. The ORF-E is implemented

by the German Technical Cooperation (GTZ) on behalf of the Federal German Ministry for Economic Development and Cooperation (BMZ). The cooperation between the Municipality of Bihac and the ORF-E intends to guide potential investors and could serve as a practical bottom-up example for assessing relevant framework conditions in Bosnia and Herzegovina.

The study is available for download from www.gtz.de/....

International Renewable Energy Agency (IRENA) IRENA's statute enters into force

With its twenty fifth member state ratifying the International Renewable Energy Agency's (IRENA) statute early June, the statute enters into force 8 July 2010 and will establish IRENA as an international organisation.

The founding conference for IRENA was held on 26 January 2009 in Bonn, Germany, where 175 delegation took part and 75 countries signed the statute. As of today, 145 countries and the European Union have signed IRENA's Statute.

Abu Dhabi, United Arab Emirates, hosts IRENA's headquarters, Bonn will host IRENA's Innovation and Technology Centre, a Liaison Office will be established in Vienna, Austria.

For more information please visit www.irena.org.

GTZ Brazil

Brazil: Event held by ECLAC discusses best ways to evaluate outcomes of Energy Efficiency programmes



With support from the Federal Ministry for Economic Cooperation and Development (BMZ) and GTZ, ECLAC (Economic Commission for Latin America and the Caribbean) promoted a workshop to discuss "Indicators of public policies for energy

efficiency" from the 10th to 11th of June in Rio de Janeiro. GTZ's Energy Programme in Brazil supported this important initiative, which went beyond a debate on the situation of EE programmes in Latin America and the Caribbean, including a debate on how to best assess the outcomes and impacts of national energy efficiency activities. The meeting gathered more than 30

experts from leading institutions in energy efficiency in Brazil and aimed to analyze the feasibility of implementing methodologies that evaluate EE programmes and policies.

(Photo f.l.t.r: Hamilton Moss, Ministério de Energia do Brasil, Haroldo Lima, ANP - Agência Nacional do Petróleo, Gás Natural e Bicombustíveis, Brasil e Hugo Altomonte, ECLAC)

For further information please contact Andreas Nieters (andreas.nieters@gtz.de).

Renewable Energy Policy Network for the 21st Century – REN21

NOTE the DATE: REN21 Renewables Global Status Report 2010 to be released mid July 2010



REN21 will release the new edition of its annual flagship publication – the REN21 Renewables Global Status Report (GSR) 2010. Preparation of the report is led by Dr. Janet Sawin and Dr. Eric Martinot. As in past years, the report has undergone review by over 100 international renewable energy experts. This year's report will include a special section authored by Worldwatch Institute focusing on renewable energy developments in the broader global context. The financial data have again been provided by Bloomberg New Energy Finance.

The REN21 Renewables Global Status Report will be released jointly with the UNEP SEFI Global Trends in Sustainable Energy Investment 2010 report. For further information please visit [www.ren21.net/news/...](http://www.ren21.net/news/)

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