

Dear Readers,

It is my pleasure to present to you GIZ's first Energy Newsletter. The **Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH**, established on 1 January 2011, brings together under one roof the long-standing expertise of the **Deutscher Entwicklungsdienst (DED) gGmbH** (German Development Service), the **Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ) GmbH** (German Technical Cooperation) and **Inwent** – Capacity Building International, Germany.

Last December, the United Nations proclaimed 2012 as the "**International Year for Sustainable Energy for All**". Earlier this year at the Fourth World Future Energy Summit in Abu Dhabi, UN Secretary-General Ban Ki-moon called for "a global clean energy revolution – a revolution that makes energy available and affordable for all". His Advisory Group on Energy and Climate Change has recommended two "bold but achievable" targets for 2030 – universal access to modern energy sources and a 40 per cent increase in energy efficiency.

GIZ will continue the work of GTZ, DED and Inwent and promote sustainable energy solutions as the pivotal element of our efforts to tackle challenges such as poverty alleviation and climate change. With a view to 2012, we are looking forward to bringing in our expertise into international debates and initiatives. Thus, our experience and dedication will contribute to sustainable development and the achievement of the United Nations' goals.

I hope you will find our quarterly newsletter of interest. Please feel free to forward this newsletter to interested friend and colleagues. Kind Regards

Bernhard Zymła (energy@giz.de)
(Head of GIZ energy and transport)

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Recent publications

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Palm Oil – sustainability is possible! Promotion and certification of smallholders helps sustainable palm oil production
October 2010
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GIZ Transport Policy
Advisory Services
Fuel Price Reform in Bolivia
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GIZ HERA – Poverty-oriented Basic Energy Services
Small-scale Electricity Generation from Biomass
August 2010
Part 1 – [Biomass Gasification 0.17 MB \(English version\)](#)
Part 2 – [Biogas 0.21 MB \(English version\)](#)
Part 3 – [Vegetable Oil 0.29 MB \(English version\)](#)

GIZ HERA – Poverty-oriented Basic Energy Services
Modern Energy Services for Modern Agriculture - A Review for Smallholder Farming in Developing Countries
January 2011
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GIZ HERA – Poverty-

- [Micro-gasification: Cooking with gas from biomass](#)
- [Modern Energy Services for Modern Agriculture - A Review for Smallholder Farming in Developing Countries](#)
- [enegypedia.info](#)

GIZ HERA – Poverty-oriented Basic Energy Services Off-the-grid - Decentralised energy supply in developing countries



Energy is a prerequisite for development and growth. However, 2.7 billion people in developing countries rely on biomass for everyday cooking and heating. Furthermore, 1.4 billion people worldwide have no access to electricity.

How can people in developing countries profit in a sustainable way from existing technologies and approaches?

The very first conference organised by the new Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) from 10 to 12 January 2011 in Bonn focused on decentralised energy supply in developing countries. Presentations and discussions allowed a deep insight for the 170 participants from German speaking development organisations, private companies, and research institutions.

In order to facilitate effective networking, plenty of room for exchanging knowledge and experience was provided: an exhibition with contributions from the participants and 16 thematic discussion groups on topics such as carbon markets as a financing mechanism, power generation from biomass, sustainability of different dissemination approaches and the productive use of energy. One of the highlights of the conference was a panel discussion about cooperation between development organisations and German companies in the field of decentralised energy supply.

- [GIZ HERA – Poverty oriented Basic Energy Services](#)

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Global Alliance for Clean Cook Stoves Former GTZ colleague among the 100 top global thinkers



In its December issue the American magazine "Foreign Policy" lists the 100 most important global thinkers. Next to Bill Gates, Barack Obama and Angela Merkel, a former GTZ colleague is among them: Agnes Klingshirn was ranked 42. Together with

Peter Scott (a stove designer from Aprovecho) she has been listed for insisting that clean and efficient stoves really make a change in improving poor people's lives.

2.7 billion people depend on biomass for cooking. They benefit from the use of an efficient stove in many ways – including better health thanks to less exposure to smoke, reduced fuel costs, less work burden for women, and job

oriented Basic Energy Services

Micro-gasification: Cooking with
gas from biomass
January 2011

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GIZ Energy & Transport
Power in G-20 and N-11
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GIZ HERA – Poverty- oriented Basic Energy Services

Wood Energy – renewable,
profitable, and modern
August 2010

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Renewable Energy Policy Network for the 21st Century (REN21)

Renewables 2010 Global Status
Report (GSR)
July 2010

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GIZ HERA | EUEI PDF

Policy and regulatory framework
conditions for small hydro power
in Sub-Saharan Africa
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UNEP, SEFI & Bloomberg

New Energy Finance
Global Trends in Sustainable
Energy Investment 2010 Report
July 2010

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GIZ Egypt | Egyptian- German Joint Committee on Renewable Energy, Energy Efficiency and Environmental Protection (JCEE)

Impact of Energy Demand on
Egypt's Oil and Natural Gas
Reserves – Current situation and
perspectives to 2030
June 2010

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GIZ Energy-policy Framework Papers

creation. Agnes Klingshirn organised and managed many stove projects for GTZ. She has been promoting clean and efficient cooking energy at all political levels for nearly 30 years, even when improved stoves were not "in fashion". Thus, she is regarded as one of the pioneers of the Global Alliance for Clean Cook Stoves. The Global Alliance for Clean Cook Stoves, which was launched in September 2010 by the UN Foundation, seeks to bring the topic "cooking energy" on the international agenda. This is now confirmed by the inclusion of Agnes Klingshirn and Peter Scott on the list of world's most influential thinkers 2010.

Congratulations!

- [The FP Top 100 Global Thinkers \(www.foreignpolicy.com/...\)](http://www.foreignpolicy.com/...).

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GIZ Wind Energy and Development Dialogue 2010



More than 100 policy makers, private sector representatives and technical experts from North Africa, the Middle East, Asia, Latin America and Europe attended the annual Wind Energy and Development Dialogue on 25th of November 2010 in

Berlin. The German Wind Energy Association (BWE), the German Engineering Federation VDMA Power Systems (VDMA-PS) and the German Technical Cooperation (GTZ) invited manufacturers, suppliers, project developers, and operators from the German wind sector to engage in a hands-on dialogue dealing with the latest developments in emerging markets.

The conference focused on developments in the Middle East and North Africa (MENA), in particular which perspectives DESERTEC and the Mediterranean Solar Plan offer for the promotion of wind energy in the region. The event also brought the expansion and grid integration of wind energy in Latin America into focus: experience in wind energy grid integration as well as opportunities for technology cooperation were discussed.

The conference was part of a series of events in the context of GTZ's Wind Energy Week 2010 from 22-26 November 2010, dealing with the latest trends in the sector. GTZ's Wind Energy Week featured a two-day Expert Workshop on Grid and System Integration of Wind Energy for representatives from partner countries of German development cooperation, dealing with technical challenges of large-scale wind penetration.

(Photo: Dr. Mike Enskat, GTZ)

- www.gtz.de/...

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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 \(English version\)](#)

GIZ 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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GIZ HERA – Poverty-oriented Basic Energy Services

Carbon Markets for Improved Cooking Stoves – A GTZ Guide for Project Operators
Revised Edition – January 2011

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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 \(English version\)](#)

GIZ Transport Policy Advisory Services
International Fuel Prices 2009 – Full Version
December 2009

[Download PDF 7.92 MB \(English version\)](#)

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

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Upcoming events

21-23 June 2011
Vienna, Austria

[Vienna Energy Conference 2011](#)

11-15 April 2011
Brussels, Belgium

New impulses for the diffusion of renewable energies German Biogas Association and GIZ launch cooperation



The German Biogas Association and the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) jointly promote the diffusion of renewable Energies in developing countries and emerging economies.

German technology providers and service companies offer

reliable products and innovative solutions, which can contribute to the expansion of sustainable energy supply and to the transfer of technology and know-how. The utilization of biogas for power and heat generation offers a great opportunity in the light of increasingly industrialized agricultural sectors in these countries.

The promotion of biogas-utilization and thus contributing to sustainable development and the protection climate and environment is the aim of the cooperation between the German Biogas Association and the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ).

(Photo: Josef Pellmeyer, president of the German Biogas Association and Bernhard Zymla, head of GIZ energy and transport)

- German Biogas Association e.V. (www.biogas.org)
- Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH (www.giz.de)

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GIZ Chile Public Land for Wind Energy in Chile



On 21 December 2010, the Chilean Government started an international tender in order to allocate state-owned land to private investors for the development and operation of wind energy projects. Two areas in the Antofagasta-Region in northern Chile are being offered with 3.048 and 2.688 hectares, respectively.

These areas were identified within a joint project between the Chilean Ministry of Energy and GIZ ("Public Properties for Grid Connected Renewable Energy Projects"). The German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU) supports this project as part of its International Climate Initiative.

An average wind speed of around 8 m/s has been measured at 80 m height at both locations. For each site the winner of the tender will receive a land-use concession for a period of 25 years in order to construct and operate a wind farm of up to 100 MW. Offers can be handed in to the Chilean Ministry of Public Lands until July 2011. Companies interested in the tenders can find further information on www.bienes.cl. The Chilean government is already preparing tenders for further areas which have been identified within the GIZ-project.

[European Union Sustainable Energy Week](#)

Recommended newsletters

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

[EUEI-PDF newsletter](#)

GIZ Transport Policy Advisory Services

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

GIZ – International Fuel Prices

[GIZ – International Fuel Prices](#)

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[More GIZ 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 – REEEP & the Renewable Energy Policy Network for the 21st Century – REN21) www.reegle.info

Renewables Interactive Map (REN21) [www.ren21.net/...](http://www.ren21.net/)

Back issues

[Click here](#) to browse back issues of GIZ's energy newsletter.

(Photo: Wind measurement in the Atacama Desert in Northern Chile)

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- [State-owned land for power generation projects using renewable energy \(www.gtz.de/en/weltweit/...\)](http://www.gtz.de/en/weltweit/...).
- For further information please contact Tim Patrick Meyer (tim-patrick.meyer@giz.de).

GIZ Chile

SUN-AREA – Solar Roof Cadastre for Calama



On 16 December, the first solar roof cadastre in Latin America has been launched in the presence of the Chilean Energy Minister and representatives of the private sector. The SUN-AREA project aims at identifying the potential of roof surfaces for solar installations in the

north of Chile.

Calama is the first city in Latin America where the solar suitability of every single roof top has been evaluated. On the basis of 3D laser scanner data obtained during a flight survey, and considering global solar irradiation, roof orientation, roof angle, clouding and shadow variations, the suitable roof area has been calculated. Data were processed by a Geographical Information System, resulting in detailed information on the suitability of each individual roof for installing a solar system that generates electricity or hot water.

The SUN-AREA project was carried out by the Steinbeis Transfer Center together with Digimapas, on behalf of the GIZ Renewable Energy Project in Chile. The results are now publicly available in an interactive map on the homepage of the Chilean Energy Ministry (www.minenergia.cl). Here, citizens of Calama can find out about the solar suitability of their roof top, potential power output in kWh/year and CO2 reduction.

(Photo: In the launching of the SUN AREA solar roof cadastre participated (from left to right): The Country Director of GIZ Chile Edgar von Knebel, the Chilean Energy Minister Ricardo Raineri, SUN AREA Project Manager Prof. Dr. Martina Klärle of the German Steinbeis Transfer Center for Geoinformation and Land Management, the Head of the GIZ Energy Program Chile Trudy Könemund, and the Regional Secretary of Energy of the Northern Macro Zone Carlos Arenas.)

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- For further information please contact Trudy Könemund (trudy.koenemund@giz.de).

GIZ Chile

Touring Exhibition: "Chile renews its energies. Towards a secure and sustainable future"



The exhibition "Chile renews its energies. Towards a secure and sustainable future" ("Chile renueva sus energías. Hacia un futuro seguro y sustentable") has been designed to inform the general public about

renewable energy and to create awareness of energy efficiency and climate change. By including interactive elements and different types of media it has been especially attractive for pupils and students.

Starting in Santiago on 8 October 2010, the exposition has since been on tour in Coquimbo, Antofagasta, Valdivia and Concepción. In 2011 the expo returned to Santiago, where it will be exhibited in the Goethe-Institute until the end of January. So far, the exposition has attracted more than 9.000 visitors. In Coquimbo, more than 200 visitors per day visited the expo, which was designed and organized by the GIZ Renewable Energy Project and the Centre for Renewable Energy (CER) in Chile. The exposition is accompanied by the website www.chilerenuevaenergias.cl with a large collection of links and publications as well as additional information for teachers and the interested public. Until today, almost 14.000 people have accessed the website.

(Photo: During the inauguration in Santiago, Trudy Könemund, Head of the GIZ Energy Program Chile, guides the tour through the exposition and explains a model for small hydro power to Carolina Galleguillos, Director of the Centre for Renewable Energy (CER); Cristian Cárdenas, Director of the National Energy Efficiency Program; Jimena Bronfman, Viceminister of Energy; Edgar von Knebel, Country Director of GIZ Chile; and Ingrid Jung, Head of the Department of Economy and Cooperation of the German Embassy in Chile.)

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- For further information please contact Karin Franzen (karin.franzen@giz.de).

GIZ Energising Development (EnDev) Latest results from Energising Development

More than 6.4 million people in rural and peri-urban households have received access to modern energy services due to the support of the global programme Energising Development (EnDev) until June 2010. The programme, a joint cooperation between BMZ and DGIS, has started its activities 5 years ago. In 2009 EnDev entered its second phase with the goal to provide additional 3 million people with modern energy services. EnDev is active in 18 countries around the globe. Access to modern energy services is provided by connecting households to a mini grid powered by hydropower or photovoltaic systems, to the central grid, by providing pico PV systems or by supporting improved cooking technologies. In addition to households more than 13,000 social institutions have also received access to improved cooking energy or electricity. To encourage local economic development 621 small and medium sized enterprises do now also have access to energy for productive use activities.

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- Results of the impact analysis are available for various countries and can be downloaded from <http://energypedia.info>.

GTZ Vietnam Wind energy project in Vietnam tests new methods for monitoring greenhouse gases



Within the framework of the International Climate Initiative, operated by the German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)

GmbH is helping the Government of Vietnam establish a regulatory framework for expanding the wind energy sector while ensuring a stable environment for private investors. GIZ is advising the Ministry of Industry and Trade (MoIT) on:

(1) developing instruments to support the project based on the German Renewable Energy Act, (2) wind energy planning in the provinces and (3) supporting the private sector by building wind farms connected to the power grid. Although this will eventually bring about a fall in greenhouse gas emissions, the policy-advisory project itself does not directly reduce emissions.

To quantify the project's contribution to climate change mitigation, GIZ is running a pilot scheme to test a new method for monitoring the indirect impact of particular measures on greenhouse gases. This essentially involves identifying national climate change mitigation goals and then analysing the obstacles standing in the way. Expert interviews weigh the various obstacles and estimate (as a percentage) the extent to which they hamper the mitigation goals. If an obstacle has been overcome by the end of the project resulting in the ability to achieve the national goal, a share of the reduction effect is allocated to that project (in tonnes of CO₂). GIZ is thus actively involved in the debate on MRV methods (measuring, reporting and verifying) and their role in a future international climate regime. It is after all important – especially in the interests of the climate change negotiations – that mitigation measures meet MRV criteria.

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- Click here for more information: www.international-climate-initiative.com.

Delhi International Renewable Energy Conference (DIREC) 2010 India pushes for renewable energy – Strengthening South-South cooperation



At the International Renewable Energy Conference in Delhi (DIREC 2010) Pratibha Patil, President of the Republic of India, announced an expansion of the installed renewable energy capacities from currently 17 gigawatt to

85 gigawatt by 2022. More than 9.000 political representatives from 65 countries emphasized the importance of renewable energies for energy security, climate change and economic development.

As part of its ongoing efforts to assist developing countries in establishing sustainable energy systems, the German Federal Ministry for Economic Cooperation and Development (BMZ) held an official side event at the Delhi International Renewable Energy Conference 2010 (DIREC 2010). "Developing countries can learn from each other when it comes to adapted technologies for renewable energies", said Stefan Helming, head of the GTZ's office in India. "GTZ fosters and facilitates this transfer as a mediator."

DIREC 2010 was the fourth of the International Renewable Energy Conferences, which had been initiated at the 2002 World Summit on Sustainable Development in Johannesburg.

(Photo: Stefan Helming (GIZ) and Manfred Konukiewicz (BMZ))

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- For more information on the International Renewable Energy Conferences please visit www.ren21.net.
-

GTZ at European Development Days 2010
High Level Panel with EU Commissioner Andris
Piebalgs



Successful poverty alleviation and economic development depend on a secure supply of energy. There is a tremendous increase in energy demand and oil, the most important energy source, becomes more expensive. The utilization of renewable

energies and decentralized energy systems gain more importance. These are key messages of the High Level Panel "Mobilizing Energy for Sustainable Development" that was organized by the EU-Commission, GTZ and the Netherlands Development Organisation SNV.

The untapped potentials of renewable energies and the efficient use of energy offer great opportunities. EU Commissioner Andris Piebalgs picked out energy as the central issue of the Green Book on EU-development cooperation. Thus, the speaker on the High Level Panel called for more courageous and innovative solutions. A lot of new solutions emerge on the local level and some practices show that the poor profit from the energy business if the right regulatory framework is in place. On the European Development Days, GTZ and SNV also introduced the Global Alliance for Clean Cookstoves. EUNIDA hosted a discussion panel on "Networks and Aid Effectiveness". The EDD 2011 will be held in Poland.

(Photo: f.l.t.r.: B. Eisenblätter (GIZ), D. Elsen (SNV), G. V. Kristovskis (Foreign Minister of Latvia), H. Cheikhrouhou (ADB), J. M. Kikwete (President of Tanzania), A. El Hafidi (Ministry of Energy, Marokko), A. Piebalgs (European Commissioner for Development), J. Maina (SCODE), S. Rai (Biogas Sector Partnership Nepal), F. Birol (International Energy Agency). Photo: Wachholder.)

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- For more information please visit www.eudevdays.eu.

GIZ Transport
Transport and Climate Change in Cancún (COP 16)



From 29 November to 11 December the UN Climate Conference (COP16) took place in Cancun, Mexico. For the GTZ transport team Daniel Bongardt participated as part of the Initiative "Bridging the Gap: Pathways for Transport in the Post-2012 Process". The partners of the initiative, GTZ, Veolia

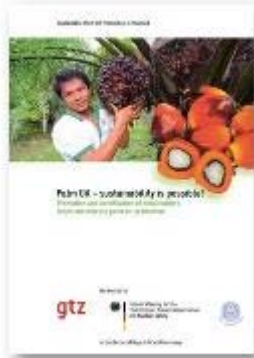
Transport, UITP, TRL and ITDP were actively participating in events and discussions around the negotiations. At an information stand, delegates were informed through publications on transport in developing countries. In addition, the team wrote a "Daily Blog" on the conference. Two side events were co-hosted by the Bridging the Gap Initiative and GTZ: "Transport in NAMAs and national communications" and "Your city moves on bike". Furthermore, GTZ highlighted the importance of urban transport for climate change and development at a panel discussion during a side event of the German Federal Ministry for Economic Cooperation and Development on "Innovative Responses to Climate Change in Urban Service Delivery".

- More details are available at www.transport2012.org.

New Publications

GTZ Thailand

Sustainability is possible! Promotion and certification of smallholders helps sustainable palm oil production



The brochure provides information on sustainability and examines associated development opportunities for rural areas. The Thai-German project „Sustainable Palm Oil Production“, which is supported by the Climate Initiative of the Federal Ministry for the Environment, is helping the Thai palm oil sector introduce international sustainability standards.

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- Download brochure from www.gtz.de/sustainablepalmoil

Woodfuel Value Chain Analysis in Kenya and Rwanda

Economic analysis of the market oriented woodfuel sector



Geoffrey M. Ndegwa (Cologne University of Applied Sciences) has conducted this study under supervision of Prof. Dr Johannes Hamhaber (Cologne University of Applied Sciences) and Dr Thomas Breuer (German International Cooperation – GIZ).

The woodfuel sector in developing countries is an important source of livelihood for the rural poor in terms of job creation and income generation from sales of products like firewood and charcoal. This study is an analysis of the woodfuel sector in Kenya and Rwanda with the aim of ascertaining its economic importance, identifying major challenges faced and making recommendations on how they can be eliminated. Gross margin calculations were made to assess the profitability of growing eucalyptus as a cash crop as compared to other crops. A value chain analysis was done to determine income distribution between different actors in woodfuel supply chains.

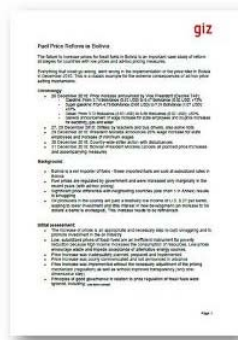
In both countries, the firewood markets are poorly developed but the charcoal supply chain has well established structures from production to retailing. However, the real costs of wood are not reflected in the final price of charcoal. This is, because wood is obtained at no cost from private farmlands, government forests, communal land and ranches in Kenya. The sector faces many challenges. The most notable ones are lack of capital, corruption, low technology adoption and lack of suitable legal and policy framework.

This research brings to light the important role the woodfuel sector plays in both countries. It is hoped that this knowledge will be used as a basis to make important reforms by policy makers to sustain woodfuel supply and commensurate economic benefits to the actors, especially in rural areas.

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- Contact: Thomas Breuer (thomas.breuer@giz.de).

GIZ Transport Fuel Price Reform in Bolivia



The failure to increase prices for fossil fuels in Bolivia is an important case study of reform strategies for countries with low prices and ad-hoc pricing measures. Everything that could go wrong, went wrong in the implementation of the price hike in Bolivia in December 2010. This is a classic example for the extreme consequences of ad hoc price setting mechanisms. Our paper provides attached a brief evaluation of the failed reform attempt in Bolivia from our perspective.

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GIZ Transport Data Preview 'International Fuel Prices' 2010/2011



The 2010/11 edition of GIZ "International Fuel Prices" provides an overview of retail prices of gasoline and diesel in more than 170 countries. Recent political turmoil in various countries has been at least partially linked to increasing commodity prices, including transport fuels. The public

grievance about increasing prices is inter alia caused by often inappropriate regulatory approaches and limited transparency.

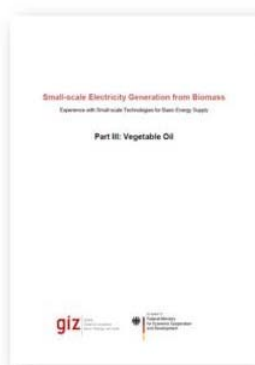
The current survey provides a snapshot based on a crude oil price level of 81 USD per barrel in mid-November 2010. Since then, prices have further increased – the window of opportunity to review pricing approaches in times of falling markets (as in early 2009) has passed. However, as such a window may re-open again decision-makers should start preparing the necessary reform steps since prices are expected to increase further in the next years.

The full report "GIZ International Fuel Prices 2010/2011" will provide a detailed account of international fuel pricing policies and options for a low carbon, energy efficient and inclusive transport system. More information is available at www.gtz.de/fuelprices and www.sutp.org. It will be available in Spring 2011.

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- www.gtz.de/fuelprices
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GIZ HERA – Poverty-oriented Basic Energy Services Small-scale Electricity Generation from Biomass – Part III: Vegetable Oil



In the third and final part of HERA's paper series on power generation from biomass, GIZ and non-GIZ experience with electricity production from vegetable oils is compiled. While from a technology point-of-view, plant oils constitute a very viable option for off-grid power generation in developing countries, their sustainable application in daily operation for rural electrification projects still remains rare. The paper identifies remaining bottlenecks and provides recommendations for future electrification projects based on plant oil.

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GIZ HERA – Poverty-oriented Basic Energy Services Carbon Markets for Improved Cooking Stoves – Revised Edition: January 2011



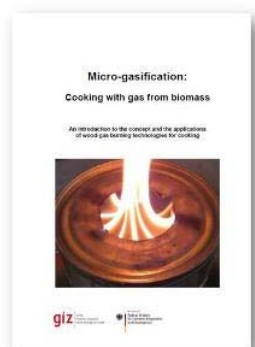
After receiving a lot of positive feedback for the 2010 edition of the carbon market guidebook for cooking stove projects, HERA has come up with a major revision for 2011. Besides a large number of minor corrections and updates, a new chapter on "Implementing a Carbon-funded Cooking Stove Project" with information on how to practically design a carbon-funded stove project has been added. The chapter includes information on stakeholders' roles and responsibilities, the CDM-PoA approach, recommendations on the use of carbon revenues as well as an overview on

expected costs and revenues from a stove project on the carbon market.

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GIZ HERA – Poverty-oriented Basic Energy Services Micro-gasification: Cooking with gas from biomass



Micro-gasifiers: much more than "just another improved cook stove". In this new HERA handbook, Christa Roth provides an introduction to the concept and the application of wood-gas burning technologies for cooking.

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GIZ HERA – Poverty-oriented Basic Energy Services
Modern Energy Services for Modern Agriculture - A
Review for Smallholder Farming in Developing
Countries



This publication provides an overview on energy inputs required in different steps of the agricultural production chain, such as production, post-harvest and storage, processing, and commercialization.

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energypedia.info

Energypedia - connecting knowledge



Energypedia is an internet platform similar to Wikipedia*. Energypedia provides articles about renewable energies and experiences in the context of development aid. These articles are and will be updated continuously with everyone's collaboration (collective intelligence)!

Unlike conventional web-platforms, energypedia allows all its users to make their contributions. Providing and revising knowledge (in terms of wiki articles about renewable energies) is not organized in responsibilities or hierarchies. All wiki users are equal, everyone has the right to create content. As a result, all relevant content concerning renewable energies in the context of development aid are continuously revised.

**A Wiki is a system of sites. Users can not only read but also edit articles directly online.*

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■ [energypedia.info](#)

Registration information

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