

Energy Newsletter

Quarterly news on GIZ's work on energy and climate protection
A service by GIZ Energy

Issue no. 37
August 2014

Dear readers,

The excellency of GIZ Energy competence recognized by our partners and clients has led to an extensive expansion of our activities over the last years. This encouraging development is only achievable with dedicated colleagues with a high professional and cooperative spirit actively involved in shaping the process and contributing to energy transitions all over the world - far ahead of the German *Energiewende*.

After many years of GIZ affiliation, three of our outstanding thought leaders will leave us for their retirement – Dr. Rolf Posorski, Dr. Paul Suding and Dr. Albrecht Kaupp.

Rolf Posorski joined GIZ in 1984 after his start in the field of development cooperation with the German Development Service (DED) in the 1970s. Coming from a technical background and famous for always working with the greatest precision and thoroughness, he particularly contributed to GIZ's expertise of renewable energy topics. He significantly advanced the Technical Expertise for Renewable Energy Application (TERN) project and was central in building up the GIZ competence center on Energy, Transport and Ecoefficiency as Head of GIZ Energy and Transport. Rolf Posorski's last assignments encompassed renewable energy projects in China, where he initiated the research and training center for wind energy, and in Nepal, prominently addressing energy efficiency issues. His highest-aiming adventure had yet to come: together with his friend Albrecht Kaupp, he discovered a passion for exploring nature's potentials apart from energy – and climbed the Himalaya. What comes after the earth's highest mountain range? One can only speculate curiously.

Paul Suding, an enthusiastic researcher and lecturer at the Institute of Energy Economics at the University of Cologne works for GIZ since 1989, with several years of energy business consulting experience during the 1980s. Holding numerous assignments in developing countries literally all over the world, he was responsible, for instance, for German bilateral energy programs in Burundi, Egypt and China. For the latter, he evolved into one of the outstanding and most respected country experts and information sources for the entire GIZ and beyond. He also worked in Quito and Santiago as director of the Sustainable Energy and Development cooperation programs before becoming the first Head of Secretariat of the Global Renewable Energy Policy Network (REN21), where he played a major role in forming the renowned network. Lately, he acted as director of the cooperation program on climate change and energy for Latin America and the Caribbean with the Inter-American Development Bank (IDB). Paul Suding certainly will remain an enthusiastic and thought provoking participant in the global energy discussion. For sure, more articles and papers are on the horizon of this inspiring outside-the-box-thinker.

Albrecht "Ali" Kaupp has been with GIZ since first entering the headquarters in Eschborn in 1983. From there he moved on and worked for many years as Project Manager in the field of Rational Use of Energy on the Philippines. During that time, he occasionally worked for the United Nations Industrial Development Organization (UNIDO) as Chief Technical Advisor on the Philippines. With stop-

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Current Vacancies

[India: Head of Energy Programme](#)
JOB-ID: 18811

Upcoming Events

26 to 28 August 2014
[Brazil Windpower 2014](#)
Rio de Janeiro | Brazil

9 to 10 September 2014
[PV Project Development Africa 2014](#)
Johannesburg | South Africa

10 to 12 September 2014
[Renewable Energy World Asia](#)
Kuala Lumpur | Malaysia

16 to 17 September 2014
[Solar & Off-grid Renewables West Africa](#)
Accra | Ghana

22 to 23 September 2014
[Microgrid Deployment Workshop - Implementing Grid-Tied, Remote, and Off-Grid Solutions](#)

overs on the Fiji Islands, China and Thailand, amongst others, he moved on to India where the libertine and out-of-the-box thinker acted as highly respected and appreciated Senior Advisor for the Ministry of Power and the Bureau of Energy Efficiency. Through his excellent work and visionary thinking, he developed the energy efficiency program and the Energy Conservation Law of India. In 2008 Albrecht Kaupp became Team Leader for the Euro-Mediterranean Energy Market Integration Project (MED-EMIP) in Cairo, Egypt. Acting as an all-round talent for the Mediterranean Solar Plan and many programmes around the world from out of his caravan, somewhere in the South of Germany, he remains the dynamic explorer and outdoor character he has always been.

I am very grateful for their incessant efforts and noble work and wish Rolf, Paul and Ali pleasant farewell knowing that we will proceed with our fruitful and always very interesting discussions.

Kind regards,

Bernhard Zyma
Head of GIZ energy

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- Biomass Energy Sector Planning Guide
- Catalysing Cookstove Markets with Carbon Finance

AFRICA

Kenya

“Where Shall We Put It?” – a handy tool for mini-grid site selection



Mini-grids have the potential to promote sustainable development for off-grid communities in Kenya by powering productive uses such as water pumping and irrigated agriculture.

GIZ's Promotion of Solar-Hybrid Mini-Grids

programme (ProSolar) together with government institutions in the energy sector conducted site assessments to ascertain the need and demand for electrification

[and Off-Grid Solutions](#)

Barcelona | Spain

22 to 26 September 2014

[29th European Photovoltaic Solar Energy Conference and Exhibition](#)

Amsterdam | The Netherlands

23 September 2014

[Climate Summit 2014](#)

UN Headquarters, New York | USA

24 to 25 September 2014

[The 7th Biofuels International Conference](#)

Ghent | Belgium

26 September 2014

[European Energy Security Forum 2014](#)

Brussels | Belgium

30 September 2014

[Alliance for Rural Electrification - Energy Access Seminar: Meet the Experts](#)

Brussels | Belgium

06 to 08 October 2014

[Caribbean Renewable Energy Forum](#)

Miami | USA

06 to 10 October 2014

Renewable Energy Week 2014

Berlin | Germany

09 October 2014

Wind Energy and Development Dialogue (WEED)

Berlin | Germany

13 October 2014

[Launch of World Energy Outlook 2014 Special Report on Africa](#)

London | United Kingdom

20 to 23 October 2014

[Solar Power International 2014](#)

Las Vegas | USA

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in northern Kenyan counties.

The outcomes of this analysis, which were collated into a handbook entitled "Where Shall We Put It?", inform about efforts to develop 'criteria for site selection' as a guiding tool for all relevant players. Site selection is a crucial factor for mini-grid implementation as it has a profound impact on attracting off-grid financing and the overall sustainability of the mini-grid system, among others.

The site selection parameters outlined in the handbook include:

- (1) exact location of installation (proximity to existing and/or planned power sources, distribution networks and topography);
- (2) productive usage of power;
- (3) security;
- (4) magnitude of potential power consumers; and
- (5) payment of service (ability to pay and willingness to pay).

These aspects are crucial and should be considered during site selection. The handbook was presented to a range of actors at a GIZ multi-stakeholder's workshop on strengthening the mini-grid market in Kenya.

For queries, contact [Jacinta Murunga](#).

Photo: Productive use of power.

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Kenya

Hub for solar PV training



GIZ, through its Africa Facility and ProSolar programme, has entered into a partnership with the Strathmore Energy Research Centre (SERC) to respond to strict solar photovoltaic (PV) regulations in Kenya.

These regulations stipulate that a company cannot engage in selling and installing PV systems unless it employs certified technicians. As at end 2013, only a few of more than 60 solar technicians had been certified. The absence of local technical expertise will hinder the hitherto successful implementation of solar PV projects in Kenya.

To address this, the Africa Facility supported the curriculum development for advanced solar PV training. The curriculum will be recognised as a national training module. ProSolar equipped SERC with hands-on training material and a 10kW PV diesel hybrid demo system – also Kenya's first solar PV carport.

An integrated expert from the Centre for International Migration and Development (CIM) will qualify trainers and students in technical quality standards. SERC's Deputy Vice-Chancellor, Prof. Izael Pereira Da Silva, is certain that "SERC will become a hub for solar PV training in Kenya and the region."

For queries, contact [Jasmin Fraatz](#) and [Pierre Telep](#) for ProSolar or [Aregash Asfaw](#) for the Africa Facility.

Photo: 10kW PV-diesel hybrid demo system at SERC.

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Kenya

Creating a dynamic local stove market



Back in 2006, Energising Development (EnDev) Kenya began promoting two types of improved cookstoves, namely the

22 to 24 October 2014

[Local Renewables Conference](#)
Freiburg | Germany

22 to 24 October 2014

[China Wind Power 2014](#)
Beijing | China

26 to 29 October 2014

[AgriBusiness Forum 2014](#)
Kinshasa | Democratic Republic of Congo

30 October 2014

[Renewable Energy Crowdfunding Conference](#)
UN Headquarters, New York | USA

Publications

EUEI PDF Annual Report 2013/2014
[Download](#), PDF, 4.4 MB

GIZ-HERA

Biomass Energy Sector Planning Guide: development of efficient management structures.
June 2014
[Link to euei pdf website with download](#)

GIZ

Micro-gasification: cooking with gas from dry biomass. 2nd revised edition.
February 2014
[Download](#), PDF, 5.4 MB

GIZ

Multiple household fuel use - a balanced choice between firewood, charcoal and LPG.
February 2014
[Download](#), PDF, 3.9 MB

GIZ

Wood Energy – renewable, profitable and modern.
February 2014
[Download](#), PDF, 4.3 MB

Recommended Newsletters

European Union Energy Initiative Partnership Dialogue Facility
[EUEI-PDF-Newsletter](#)

GIZ Transport Policy Advisory Services



Jiko Kisasa (meaning 'modern stove' in Swahili) and the rocket stove, to enable 4.4 million Kenyans access to modern cooking energy by the end of 2014.

By December 2013, the programme had helped distribute over 1.4 million stoves via more than 4,000 trained stove entrepreneurs (artisans and dealers) in the stoves value chain. With each stove estimated to serve an average family of five, 6.4 to 7 million Kenyans now have access to these cookstoves.

EnDev Kenya applies a market-based approach in supporting the interventions that create a sustainable market for improved cookstoves. This involves building the technical and entrepreneurial capacity of stove dealers in the value chain and creating awareness and collaborations to open stove markets.

A 2013 sustainability study showed the extent to which a sustainable market for improved cookstoves (ICS) had been established, achieving market penetration and usage rates of 71% and 89%, respectively. Even in those areas where the ICS programme has proven sustainable without EnDev's direct interventions, 76% of stove dealers consider stove selling as their main income generating activity.

For queries or further information, contact [Maxwell Musoka](mailto:Maxwell.Musoka) or info@endev-kenya.co.ke.

Photo: Rocket stove in use in Western Kenya. The Rocket is popular and saves over 50% on firewood usage compared to the traditional three stones fire.

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Morocco

Solar valley visit



The founding members of the Moroccan industrial solar cluster – an organisation adapted to manage the value chain of commercial and industrial activities in the Moroccan solar industry – went on a fact-finding mission to Germany's solar valley central cluster in Erfurt from 1 to 3

June 2014.

This learning mission was organised by GIZ Morocco through its Accompaniment of the Moroccan Solar Plan (APSM) project, which has been supporting the cluster's creation and the solar industry in Morocco.

The trip's objective was to initiate cooperation between the two clusters and to develop a clear vision and strategy for Morocco's cluster. Germany's solar valley central cluster offered to regularly share lessons learned in cluster development and management.

Consequently, the Moroccan cluster's founding members are now more aware of their mission and are ready to take on the challenge and follow in the steps of the experienced German cluster.

For queries, contact apsm-maroc@giz.de.

Photo: A group of founding members of the solar cluster.

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Nigeria

NESP receives substantial co-funding from EU

Services

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

Mediterranean Solar Plan & Renewable Energy Newsletter (English / Français)

[MSP & Renewable Energy Newsletter](#)

GIZ – International Fuel Prices
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Links

Energizing Development – EnDev www.endev.info

PREEEP – Promotion of Renewable Energy and Energy Efficiency Programme (Uganda) www.energyprogramme.or.ug

Programa Energías Renovables y Eficiencia Energética en Centroamérica www.energias4e.com

GIZ/MoIT Wind Energy Project (Vietnam) www.renewableenergy.org.vn/

PERACOD – Programme for the Promotion of Renewable Energy, Rural Electrification and Sustainable Supply of Household Fuels (Senegal) www.peracod.sn

Energypedia www.energypedia.info

Reegle – the search engine for Renewable Energy and Energy Efficiency (Renewable Energy and Energy Efficiency Partnership – REEP & the Renewable Energy



16 July 2014 marked the start of the EU's EUR 15.5 million co-funding of GIZ's Nigerian Energy Support Programme (NESP).

These funds are part of the EU's 'Energising Access to Sustainable Energy in Nigeria' (EASE)

programme, and complement funding from BMZ.

NESP aims to improve the conditions for investments in renewable energy (RE), energy efficiency (EE) and rural electrification as part of the Nigerian government's efforts to address rolling electricity outages and increase electrification levels.

To this end, the programme advises partner institutions at federal level on policies, regulations and incentive mechanisms for clean energies. Five selected states are being supported on least-cost rural electrification planning. Small-scale RE and EE pilot projects will demonstrate the viability of these technologies and provide an example for their replication across the country. Meanwhile capacity development will focus on training professionals in the RE and EE sectors.

For queries contact [Anke Maria Mueller](#)

Photo: Launch event of the EU-funding for the NESP at the Federal Ministry of Power, Abuja.

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South Africa

Municipal energy efficiency projects continue



During a kick-off workshop in Pretoria on 5 June 2014, new cities were introduced to the Municipal Energy Efficiency Programme (MEEP) of the Department of Energy (DoE).

With a budget of ZAR 140 million (EUR 9.7 million) the DoE is financing many EE measures (street lighting, buildings, sewage pumps) for 26 municipalities,

totalling 35.8 GWh in annual savings in the upcoming budget year 2014/2015.

Since 2009/2010, 128 municipalities have participated in the annual MEEP programmes. As at June 2014, MEEP has saved a total of 504.9 GWh (cumulated energy costs savings at ZAR 315.4 million or EUR 21.8 million).

GIZ via the South African German Energy Programme (SAGEN) supports these municipalities and the Ministry of Energy on both technical and managerial levels.

For queries contact [Ulrich Aversch](#).

Photo: New LED high masts in Nelson Mandela Bay with 6 lights at 400 wattage each.

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Uganda

Energy Efficiency of National Water Utility



The GIZ Reform of the Urban Water and Sanitation Sector Programme (RUWASS) in Uganda has joined hands with the

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

Renewables Interactive Map (REN21)
www.ren21.net/...

Back issues

[Browse](#) back issues of GIZ's energy newsletter.



National Water and Sewerage Cooperation (NWSC), Uganda's national water utility, and KSB, a world leading pump manufacturer from Frankenthal in Germany.

The consortium has set up a developPPP initiative, funded by BMZ. Through this public-private partnership, the pumps in NWSC's second largest waterworks will be replaced with energy efficient models, which are expected to lower the energy demand by up to 20%.

Furthermore, KSB will provide hands-on training to NWSC staff on how to operate the waterworks efficiently.

Efficient and modern pumping hardware can be costly, but will save the utility money in the long term. For this project, the upfront hardware investment cost will be split between KSB and GIZ, whereas NWSC will pay back KSB's share of the costs within two years from the money saved on energy expenses.

The project is currently exploring opportunities to set up a long-term financing model. The principal idea of all models is to cover hardware costs through external investors, thus lowering investment barriers for NWSC. The population, in turn, would benefit from increased water supply and stable water tariffs due to lowered operation costs. This supports the Ugandan government's goal of universal supply of safe water.

For queries contact [Johannes Rumohr](#).

Photo: Old water pumps in the NWSC Waterworks in Jinja, Uganda.

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India

Reliable and Bankable Solar Radiation Data



Since 2011, the Ministry of New and Renewable Energy (MNRE) started gradually establishing precise radiation measurement networks in all states under the solar radiation resource assessment (SRRA) initiative.

In 2014, these networks expanded to 119 locations. The Solar Mapping and Monitoring

(SolMap) project supports MNRE in implementing the SRRA initiative and attempts to establish a benchmark of performance among existing solar power plants in India.

In the world's largest solar radiation measuring stations in 115 locations nationwide, the global, direct normal and diffuse irradiance is measured in one-minute temporal resolution with the help of precise pyrheliometers and pyranometers.

In four additional locations, advanced parameters like aerosol optical depth, albedo and longwave radiation are monitored. Sophisticated procedures for data quality control and processing, and its dissemination through data products have been implemented.

Under MNRE's new solar data sharing and accessibility policy, data products have been made available to the public. So far, 32 organisations have procured such data products a total of 120 times. Work on combining ground measured and satellite derived data has been initiated to produce a precise solar radiation

atlas of India.

A system for establishing technical performance evaluation and benchmarking has been introduced under SolMap. 119 PV plants from 12 states with a total 517.8 MWp capacity (constituting approximately 25% of entire existing Indian grid connected PV market) have been evaluated so far.

For queries contact [Indradip Mitra](#).

Photo: Newly built calibration facility for SRRA instruments in CWET in Chennai.

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India

Study tour on RE integration



“Seeing is believing” was the slogan of a week-long study tour focusing on large-scale RE integration into the electricity grid.

The tour was organised by the Indo-German Energy Forum and GIZ’s Commercialisation of Solar Energy in urban and industrial areas (ComSolar) project. The Indian delegation comprised 23

representatives from MNRE, the National Institute of Solar Energy, the Solar Energy Corporation of India, the Central and State Electricity Regulatory Commission, the Central Electricity Authority, state nodal agencies, and private electricity distribution companies.

The group first discussed the current status of the Energiewende with representatives of the German Federal Ministry for Economic Affairs and Energy (BMWi) and German experts. During various site visits the group gained further insights, for instance at Fraunhofer IWES in Kassel. Visits to SMA Solar Technology AG and Siemens provided information on the latest technologies for the smooth integration of solar PV and wind. The tour ended with a visit to Intersolar in Munich showcasing the latest technology innovations.

“Germany has already come a long way and many of the challenges that have already been faced here are very similar in India. There is a lot of scope to cooperate and learn from each other towards sustainable energy systems,” said Dr Arun Kumar Tripathi, head of the delegation and Director of MNRE.

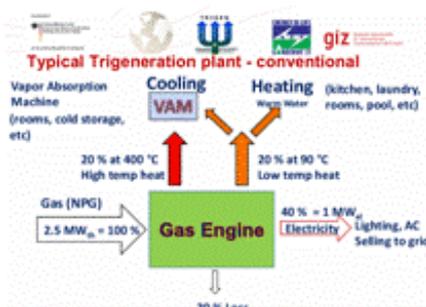
For queries contact [Markus Wypior](#).

Photo: Indian Delegation in front of the Reichstag. © Lutz Beyer

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India

First Trigen technology demonstration project



The first demonstration project for Trigen technology has been successfully completed at the Jai Prakash Narayan Apex Trauma Centre in New Delhi.

Trigeneration technology is the simultaneous production of power, heat and cold. The waste heat produced during the power production from gas

engines is recovered for cooling through ventilation air methane (VAM), and low temperature water can be used for kitchen, laundry or swimming pool heating.

The plant has a capacity of 347 kW_e; the waste heat from exhaust gases from gas engines is recovered through VAM to produce 105 TR of air conditioning. The low temperature jacket hot water is recovered for heating kitchen and laundry appliances.

The overall efficiency thus reaches up to 77%. This is very high compared to the overall efficiency of thermal power plants and diesel generators (i.e. 25% and 33% respectively).

The demonstration plant has made the following impact in the Indian building sector:

- (1) technology demonstration;
- (2) awareness generation at various national and international events/workshops;
- (3) savings of 660,000 kWh per annum;
- (4) environmental impacts, GHG reduction of 1700 tCO₂ per annum;
- (5) techno-economics of the technology;
- (6) on-line plant performance data (www.trigenindia.com).

For queries contact [Anant Shukla](#).

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India

Solar Guidelines Phase II begins



The Solar Energy Corporation of India and GIZ organised a conclave on 9 July 2014 at MNRE to kick-start the work on the Solar Guidelines Phase II. This first-of-its-kind, web-based tool provides a clear pathway to develop solar power projects and ease navigation through the legal-

administrative-regulatory frameworks from concept to commissioning.

This initiative is expected to attract investments in the Indian solar market. It is a successful flagship activity of GIZ's ComSolar project.

The conclave included presentations by state nodal agencies, the private sector and an international overview by Dr Matthias Eichelbroenner of E.Quadrat GmbH. All representatives appreciated the unique utility of the solar guidelines and felt it is necessary to explain the project development process as it varies among states.

Tarun Kapoor (Joint Secretary, MNRE) thanked GIZ for their continual inputs and was very appreciative of this bilateral collaboration. "It is a very challenging task to collect and regularly update the latest information related to solar project development in all states, and once the platform is complete, it will automatically get popularised in the market", he said.

For queries contact [Hemant Bhatnagar](#).

Photo: Solar Guidelines Phase II kick-started: Tarun Kapoor, Joint Secretary, MNRE, Rajendra Nimje, Managing Director, SECI, Jens Burgtorf, Director, Indo-German Energy Programme, GIZ, state government and private sector industry officials.

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India

Empowering Women, Renewably



When the women's Self Help Group (SHG) Jai Ma Durga started in 2010, it comprised of tribal women who had limited



options, mostly in subsistence farming. Bhagwantin, the group's secretary, however, had a dream. She saw an opportunity to set up a bigger enterprise than their current business of food supply under the government's mid-day meal

scheme.

The Renewable Energy Supply for Rural Areas (RESRA), funded by the International Climate Initiative (IKI) of the Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB) was established in the village. It enabled Bhagwantin to take the plunge and bag an order for the government's ready-to-eat food programme. The availability of on-demand electricity under RESRA ensured that a flourmill, a key requirement for manufacturing, could be set up within the village.

Today, the group supplies about 25 Anganwadis, government operated centers for better health management of pregnant women and children. This now directly benefits more than 2,000 babies and mothers.

To date, the group has supplied about 100 metric tons of ready-to-eat food and has generated EUR 37,500 in revenue. The success is reflected in children going to school, reconstructed houses and a twinkle of confidence in the women's eyes.

For queries contact [Vishwajeet Sinha](#).

Photo: Bhagwantin, the SHG secretary, now a confident advocate of women's empowerment and collective participation. "Opportunity and hard work are the only two things that can take us out of our poverty and lead us to financial independence."

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ASEAN

Risk Mitigation Check-List for Bankers



Many ASEAN countries have introduced comprehensive regulatory frameworks for RE over recent years, including financial incentives. Nevertheless, the large-scale deployment of RE technologies

for electricity generation still faces barriers in these countries, with private investments in the RE sector relatively scarce and often made on a case-to-case basis.

One reason is the local banks' and investors' lack of familiarity with the technical risks of RE projects and therefore their reluctance to seriously consider such investments.

The Renewable Energy Support Programme for ASEAN (ASEAN-RESP) launched an integrated development partnership with the private sector, namely Mott MacDonald Thailand, to jointly develop Lending Guidelines on technical risk assessment of PV projects for bankers.

As a first step, a regional workshop was organised in Bangkok, Thailand, from 22 to 23 May 2014. During the workshop, prominent regional banks exchanged experiences in developing solar PV and wind power plants, including developing technology and design, plants' performance, and cost management.

This led to recommendations on risk mitigation and management by banks when investing in RE projects, particularly PV solar projects. Consequently, Mott MacDonald and ASEAN-RESP will develop RE Lending Guidelines, while targeted dissemination workshops and training for bankers will be held in other ASEAN countries to reach out to more banks and investors. An inaugural

training session with local banks in the Philippines is planned for September 2014.

The workshop report can be downloaded at: www.aseanrenewables.info

For queries contact asean-resp@giz.de.

Photo: Participants and resource persons of Lending Guidelines Workshop (GIZ 2014).

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Indonesia

Launch of RE Guidelines on Biomass/Biogas Power Project Development



To continuously support RE development in Indonesia, GIZ's Renewable Energy Programme Indonesia/ASEAN, in cooperation with the Directorate General for New, Renewable Energy and Energy Conservation (DG NREEC), launched the first edition of RE Guidelines on

Biomass/Biogas Power Project Development on 5 June 2014 at the 3rd INDONESIA EBTKE CONEX 2014.

The RE Guidelines list the procedures for developing a biomass/biogas power plant in Indonesia. The guidelines' target groups are project developers, investors and other actors involved in developing RE power projects as independent power producers (IPP). It is an easy-to-access and regularly updated tool, which identifies country-specific challenges for project development, and provides information on how to obtain financial closure.

The Government of Indonesia has been putting considerable effort into developing the RE sector and preparing the country for the energy challenges of the future. The RE Guidelines support those efforts by shedding light on procedures and administrative processes for developing grid-connected power projects in the bioenergy sector.

The RE Guidelines can be downloaded at:
<http://re-guidelines.info/> (English)
www.lcore-indonesia.or.id/ (Bahasa Indonesia).

For queries contact asean-resp@giz.de or [Alin Pratidina](#).

Photo: Rafael Wiese from GIZ LCORE INDO handed over the RE Guidelines to Mr. Rida Mulyana the General Director DG NREEC (GIZ 2014).

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Indonesia

Micro hydro power conquers the dark



"Indonesia has been independent for 68 years, but for us, it's just now that we are independent."

This was what Victor Tabalakashim, the village chief of Nuapin, told the GIZ EnDev Indonesia team who visited his village in June 2014.

The team conducted case studies to assess the impact of EnDev's support to over 200 micro hydro power (MHP) plants in rural areas. This is part of EnDev's 'sustainability service package' to support rural electrification programmes initiated by the Directorate General of

New Renewable Energy and Energy Conservation (DJEBTKE).

Nuapin is located at the Mutis Mountain in Nusa Tenggara Timur. Its MHP plant has been operating since December 2013, supplying electricity to 186 households and public facilities such as the village office, a health centre, four churches, and two schools. With a capacity of 28 kW, it is sufficient to provide Nuapin households with three fluorescent lamps and a television.

Villagers frequently emphasised their satisfaction with the impact of MHP in their village. Previously they had to spend around EUR 7 per month to purchase kerosene for lighting; now, they only spend EUR 1 as MHP tariff. EnDev is now guiding the process of tariff-setting as it is too low to collect sufficient savings.

For more information: [Robert Schultz](#) and www.youtube.com/watch?v=0yXcJUfWwQ.

Photo: Technical reviews by team EnDev Indonesia (GIZ 2014).

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Philippines

Workshop on RE policy and regulation



GIZ and the International Energy Agency (IEA) conducted a deep dive workshop on RE Policy and Regulation at the 9th ADB Asia Clean Energy Forum (ACEF) in Manila this past June.

The workshop focused on how administrative and regulatory procedures influence the market development of RE. High-level decision-makers from Indonesia, the Philippines, Thailand and Viet Nam as well as energy utilities and project developers shared their insights on streamlining permitting procedures for RE.

The participants agreed that transparency is crucial for assessing the impact of administrative and regulatory procedures and indicated that policy and regulation are the main challenges for RE market development in the region. With the development of RE guidelines in India and ASEAN, GIZ is at the forefront in tackling this issue.

GIZ's contribution at the ACEF was a collaboration of its various regional projects and organised by its Philippines-based project 'Support to the Climate Change Commission', which is funded by BMUB under its International Climate Initiative.

For queries, contact [Hendrik Meller](#).

Photo: After a day of lively discussions on how administrative procedures can be streamlined for renewable energies the participants of GIZ's deep dive workshop at the ADB ACEF 2014 gathered for a group picture.

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Thailand

Training for plant safety and risk management



From 9 to 11 June 2014, the Project Development Programme (PDP), implemented by GIZ and funded by BMWi, organised the 1st German Biogas Training Days in Bangkok.

Experts from six German companies and the German Biogas Association conducted

training sessions and exchanged experiences with nearly 50 Thai experts and company representatives on risk management, safety of biogas plants, high-quality components and system optimisation.

The event, organised in the context of the 'renewables – Made in Germany' initiative, thus enhanced the capacities of Thai companies and industry players to ensure that Thailand achieves its biogas targets safely and sustainably. In addition, it brought German and Thai companies together in a content-focused setting that allowed the companies to position themselves as reliable partners and to build sustainable relationships.

Although the National Council for Peace and Order (governing Thailand since May) recently suspended the support programme for 12 biogas pilot projects, GIZ Thailand expects that the government will continue its support for biogas to reach the country's RE targets. The pilots were set out to demonstrate the use of Napier grass as feedstock for biogas plants, but the programme is now under scrutiny according to government officials.

For queries contact [Gisa Holzhausen](#) or [Thomas Chrometzka](#).

Photo: German company expert explaining Gas Analysis Equipment during 1st German Biogas Training Days June 9 to 11 June 2014 in Bangkok.

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Viet Nam

METRO and GIZ/PDP join forces



The wholesale group METRO, market leader in Viet Nam, is a pioneer in implementing EE measures within their operations. Besides the economic benefits of lowering their electricity costs,

METRO also applies high internal Corporate Social Responsibility standards to ensure sustainability.

Hence, METRO wants all its 3,000 suppliers in Viet Nam to implement EE measures to secure sustainability along their supply chains. However, there is still a need for awareness and adequate energy audits, reviews and information on products and services fitting Vietnamese demand. The PDP under BMWi's 'Energy Efficiency – made in Germany' initiative supports this process. The programme invited the German company LEEN GmbH to analyse and evaluate the implementation of an EE network. Companies from different market segments should follow suit and share their experiences to learn from each other and "copy" profitable measures.

LEEN GmbH, a spin-off from the German research institute Fraunhofer, successfully implemented the approach in Germany, Austria, China and Japan. Once the network is established, energy reviews will be carried out amongst the participants to clarify the demand. LEEN GmbH and PDP will identify companies with products and services to fit this demand.

For queries, contact [Tobias Cossen](#).

Photo: Network kick-off workshop in Ho Chi Minh City.

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SOUTH AMERICA

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Brazil

Promoting Business Cooperation in RE



The German Climate Technology Initiative on Concentrating Solar



Power (CSP) and Biogas in Brazil, implemented by GIZ on behalf of BMZ, pursues close collaboration with industry partners in both Germany and Brazil.

This industry matchmaking is part of several events that GIZ makes available to relevant stakeholders with the objective of promoting business partnerships.

In March 2014, representatives of the German CSP industry met with Brazilian companies in São Paulo that are potentially interested in CSP. A similar event will be held in September with German and Brazilian companies operating in the field of biogas. Both events are organised by the German Chamber of Foreign Trade in São Paulo.

During the industry matchmaking sessions, participants attend presentations by academics and renowned CSP professionals on state-of-the-art technology. Company representatives can also participate in organised matchmaking rounds in the afternoons during which they promote round-table discussions on future company relations and opportunities for common business projects.

Finally, the event's friendly atmosphere is conducive to informal interactions and the creation of solid business contacts.

For queries, contact [Ute Thiermann](#).

Photo: Matchmaking session in progress.

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Costa Rica

On the road to clean, low-emissions transportation



Costa Rica is globally known for its commitment towards climate change adaptation and for its national goal of becoming carbon neutral by 2021.

In June 2014, BMWi's 'ACCIÓN Clima' project sponsored a team of experts from the International Council of Clean Transportation (ICCT) to demonstrate the way towards a clean, low-emission transportation sector. They analysed the technological conditions of urban buses, the quality of imported fuel, and the public transport regulatory framework.

The results show that Costa Rica can substantially reduce the public transport sector's greenhouse gas (GHG) emissions, thanks to quality imported fuel and the large-scale manufacture of new diesel buses with low-emission technology.

Thus, ICCT's technical recommendations for emission reductions include changing the technological requirements for new vehicles entering the fleet, making changes to the vehicles in the existing fleet and replacing high-emitting buses over the next five years.

This will place Costa Rica on the road to having one of the cleanest public transit fleets in Latin America.

For queries, contact [Verena Arauz](#).

Photo: Part of the bus fleet of Desamparados. Most of these buses are EU2.

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Mexico

Inaugural project to implement NAMA housing

In 2012, BMUB and the UK's Department of Energy and Climate Change

(DECC) announced their support for a Nationally Appropriate Mitigation Actions (NAMA) Facility project in Mexico.

The overarching goal is to implement New Housing NAMA, which promotes cost effective EE building concepts across the residential housing sector, particularly low-income housing.

The project will be implemented via GIZ's technical assistance to large public housing financiers and housing developers, and KfW's financial incentives to small and medium sized developers and financial intermediaries.

Both components will focus on improving the capacities of Mexican authorities, applying ambitious energy efficiency standards through the provision of investment grants including eco-technologies.

The project will contribute significantly to the transformation of the Mexican residential housing sector from the baseline situation where EE considerations were largely absent. It will also contribute towards generating important co-benefits for living conditions, growth in the construction sector, higher tax revenues and lower fiscal expenditure for current energy subsidies.

The Mexican authorities intend to establish the Housing NAMA as a public policy in 2015 coordinating the diverse actions and providing funds across Mexico's Housing NAMA initiatives.

For queries, contact [Andreas Gruner](#).

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Biomass Energy Sector Planning Guide



Biomass Energy Sector Planning Guide



An estimated 2.6 billion people – nearly 40% of the global population – depend on traditional biomass for cooking, of which 95% live in Sub-Saharan Africa and developing Asia. Despite government policies aimed at substitution, alternative fuels (such as kerosene, LPG or electricity) will not offset the increasing demand for biomass energy for cooking because of its affordability and availability, especially in rural areas.

The development of efficient regulatory structures for the biomass energy sector requires coordination between stakeholders from different sectors, agreement on a shared goal, reliable sector data, awareness of current trends and the development of an action plan to improve governance of the sector. The Biomass Energy Sector Planning Guide, developed by EUEI PDF and HERA, provides practical, step-by-step guidance to facilitate these processes.

Stakeholders in government institutions can use the guide to develop efficient and coordinated ways to manage the biomass energy sector. It can be also be used by civil society and donors as a tool for raising awareness of the biomass sector within the government and prompting action to improve its management. This guide is a revision of the Biomass Energy Strategy (BEST) Guide published by EUEI PDF and HERA in 2011.

The guide can be downloaded at: www.euei-pdf.org/thematic-studies/biomass-energy-sector-planning-guide

For more information, please contact [Ina de Visser](#), EUEI PDF or [Dorothea Otremba](#), HERA.

Catalysing Cookstove Markets with Carbon Finance

Access to carbon finance has the potential to direct large amounts of investments into cookstove markets worldwide. With support from GIZ-HERA, the Stockholm Environment Institute (SEI) recently published a new paper entitled 'Can carbon revenues help transform household energy markets?'

The study uses data from India and Kenya to identify early trends in this relatively new field of financial opportunities, where so far, carbon finance is mostly used to subsidise the price of cookstoves.

Some of the advantages of accessing carbon finance as an additional stream of income include increased starting capital and the introduction of standardised monitoring systems for carbon reporting.

Despite its advantages, however, carbon finance has not yet revolutionised cookstove markets. Challenges include uncertainty with regards to sustainability and income variation due to the variability of carbon prices. The report suggests that revenue from carbon offset is therefore likely to be more useful as an addition to an already sustainable business model rather than being a business model itself.

The paper can be downloaded at: www.sei-international.org/publications?pid=2522

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