Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

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Energy Newsletter

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

Dear readers,

Germany shut down its last three nuclear power plants on Saturday 15th April. With this, Germany is taking its own path among the G7 countries to achieve net-zero carbon emissions putting the accent on a massive acceleration of wind and PV-expansion. The communiqué from the meeting of the G7 environment ministers emphasises the potential of nuclear energy to combat the climate crisis and to ensure energy security. There is also disagreement about the future of fossil energies. The meeting failed to come to an agreement on a timeline to exit coal. However, this would be necessary to meet mid-century net zero goals. The phrase "unabated coal use" leaves open the possibility of current coal plants employing controversial new technologies like ammonia co-firing and carbon capture and storage (CCS). With the vague promise that these technologies may be able to provide clean and cost-effective electricity at some point in the future, the fossil industry is trying to buy time for the continuation of its business model - time that would be urgently needed for the decarbonisation of the energy sector and time that is becoming increasingly scarce. The COP28, which will take place in Dubai from 30 November to 12 December 2023, will also revolve around this conflict. This is

shown by the last statements of Dr. Sultan bin Ahmed Al Jaber, CEO of Abu Dhabi National Oil Company and President of this year's COP. In his keynote speech at CERAWeek in March, Dr. Al Jaber emphasised the integral role that the oil and gas industry plays in solving the climate challenge. This is why, the oil and gas sector should be rapidly decarbonised through electrification and CCS. With the window of opportunity to meet the 1.5 degree target closing, it is important to highlight a key fact in this discussion. Renewable energies and energy efficiency technologies today are cost-effective, widely available and quickly deployable. Other technologies on which the discussion is increasingly focused, such as hydrogen, CCS, direct air capture and small modular reactors, are not. It is therefore a sign of hope that the G7 have now agreed for the first time on joint expansion targets for renewables - although so far only for offshore wind and photovoltaics. The targets set by the European Union in March with the revision of the EU Renewable Energy Directive (RED III) go much further. After almost two years of negotiation, the target for renewable energies in final energy consumption has risen from 32.5% to 45% by 2030.
In our newsletter we would like to present you further small steps into the right direction.
Enjoy reading!

André Eckermann
Head of Competence Centre Energy and Transport

Mike Enskat
Head of Infrastructure – Energy, Water, Mobility

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» Digitising municipal energy management

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» Inclusive E-Mobility at the TUMI Conference 2023
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UPCOMING EVENTS

31 May to 01 June 2023
Unlocking Solar Capital Africa
Kampala, Uganda

13 June to 16 June 2023
Intersolar Europe
Munich, Germany

16 June 2023
Women Energize Women Conference
Munich, Germany

20 June to 23 June 2023
Africa Energy Forum
Nairobi, Kenya

27 June to 29 June 2023
Global Energy Week
England, London

10 July to 19 July 2023
High-Level Political Forum | 2nd SDG 7 global review
USA, New York

18 July 2023
8th Edition Nigeria Energy Forum (NEF)
Hybrid | Gbagada, Lagos, Nigeria

• • • AFRICA • • •

AEEP Energy Talks: Regulatory frameworks and partnerships needed to encourage private investment in renewable hydrogen

Africa, Europe

AEEP Energy Talks: Utilising Renewable Hydrogen to Decarbonise Value Chains and Drive Development in Africa and the EU © AEEP

The Africa-EU Energy Partnership (AEEP) hosted its 10th Energy Talks on "Utilising Renewable Hydrogen to Decarbonise Value Chains and Drive Development in Africa and the EU". The webinar brought together experts from both continents to share experiences and best practices on how to decarbonise the energy sector.
Africa is poised to become a major player in the renewable hydrogen market. Experts discussed the regulatory frameworks required to encourage investment, the benefits of decarbonising export value chains, and the importance of partnerships in the process. The speakers also emphasised the role that renewable hydrogen could play in driving economic growth in Africa and Europe.
Mr Frank Mischler, Policy & European Cooperation, PTX hub, noted that hydrogen does not replace oil and gas but rather transforms the economy. “At the start of every energy transformation is renewable energy and with that comes green hydrogen to support local value chains”, he concluded.

Contact person Nina Simberg-Koulumies

Project description
The Africa-EU Energy Partnership (AEEP) is the key political platform through which Africa and Europe work together on energy.
» AEEP | Africa-EU Energy Partnership (africa-eu-energy-partnership.org)

Further information
» Utilising Renewable Hydrogen to Decarbonise Value Chains and Drive Development in Africa and the EU
» PTX hub

Strengthening Planning Capacity as Groundwork for Africa’s Continental Master Plan

AUDA-NEPAD delivers power system planning training to African Power Pools in partnership with EU-GTAF and GET.transform

African Power Pools at transmission planning training © AUDA-NEPAD

In partnership with GET.transform, the African Union Development Agency (AUDA-NEPAD) has organised a series of specialised trainings to support the African power pools in enhancing their transmission network planning capacity. This is vital preparation for Africa's Continental Master Plan (CMP).

The CMP is the blueprint of the African Single Electricity Market (AfSEM) and plays an integral part in analysing and solving Africa's energy challenge. It links generation and transmission plans between the regional power pools and the AU Member States to identify Africa's priority energy infrastructure. This will help to promote electricity trade between regions and reap economic and financial benefits of interconnections. Alongside partners like the EU Global Technical Assistance Facility for Sustainable Energy (EU-GTAF), IRENA, the International Atomic Energy Agency (IAEA) and GET.transform supported advancing the continental grid capacity expansion planning under the CMP.

As a next step, the final training from the series will delve into advanced modelling aspects of variable renewable energy sources (vRE) and battery energy storage systems (BESS).

Contact person Dr. Gildas Siggini

Project description
GET.transform is a technical assistance programme supporting national and regional partners in advancing their energy transitions. GET.transform is part of the European multi-donor platform Global Energy Transformation Programme (GET.pro), and supported by the European Union, Germany, Sweden, the Netherlands and Austria.

Further information
» GET.pro
» GET.transform – Transforming Energy Sectors Globally (get-transform.eu)
» Strengthening Power System Planning Capacity as Groundwork for Africa's Continental Master Plan

Energising Smart Agriculture

Contributing to Ghana’s food security using innovative technology

Harnessing the power of the sun to improve agriculture © GIZ/GBE

Ghana has been challenged with food insecurity due to climate change impact on rainfed agriculture. The introduction of solar pump irrigation has brought hope to farmers as it enables them to irrigate during dry season even in off grid areas.

GIZ Ghana's Green People’s Energy Project, together with governmental and private sector, initiated the scaling up of solar pump irrigation through a Result-Based-Finance (RBF) scheme. For the last two years, 150 farmers received technical assistance for procuring solar pump irrigation, out of which 93 already invested into the technology. They report on improved product quality, increased crop yields, and higher incomes.

Solar pump irrigation is a game-changer in Ghana's agriculture sector. It is a reliable, sustainable, cost-effective, and eco-friendly solution with the potential to transform the country's food security and boost the economy. I urge all stakeholders to support and promote the adoption of this technology for a food-secure future.

Contact persons Frank Lamptey and Rafael Wiese

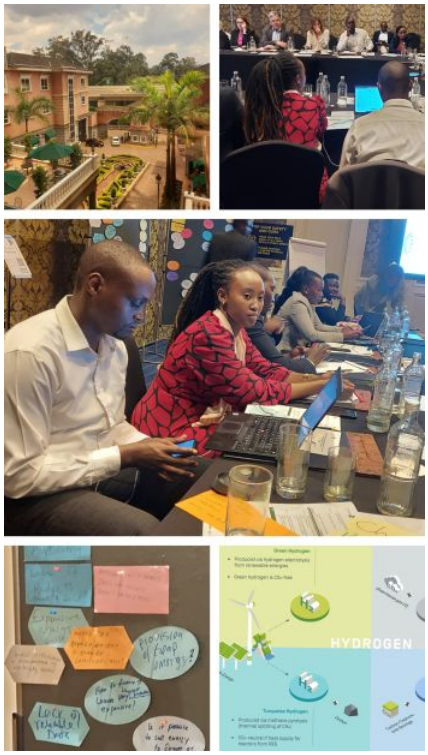
Project description
Ghana - Green People’s Energy for Africa (gruene-buergerenergie.org)

Towards energy autarky on a local level in Sub-Sahara Africa (SSA)

First Connective Cities (CC) workshop developing project ideas in renewable energy sectors (RE)

First Connective Cities (CC)-logo and participants © Jelena Karamatijevic/CC – GIZ

First Connective Cities (CC) together with the Association of German Cities conducted a workshop in Kenya, learning about the potential for developing RE on a local level and involving counties in the development of green hydrogen on a national level.



Impressions of the Workshop © Jelena Karamatijevic/CC – GIZ

The workshop was organized in collaboration with CoMSSA, International PtX Hub, and the Cities Finance Gap Fund. The attendees included five Kenyan counties and the energy ministry. Considering that 90% of Kenya's energy supply is based on green energy the discussion started on a high level and sectors of possible interventions were discussed such as waste-to-energy, mini-grids, solar water pumps, e-mobility, and climate-oriented land-use planning. The event will be followed by a series of three additional events that will develop concrete project ideas in peer-to-peer learning sessions for the whole SSA region.

CC is cooperating with the EIB and the AfDB to offer technical assistance and support for the project ideas for further preparation to finance.

Contact person Jelena Karamatijevic

Project description

Connective Cities promotes the exchange of municipal expertise and supports peer learning and collegial consultation between German and international urban practitioners as well as the development of joint projects.

» Connective Cities (connective-cities.net)

Energizing the Humanitarian-Development-Peace (HDP) nexus: Experiences from Kalobeyei settlement in Kenya

Kenya

ESDS Contributes to High Tier Electricity Supply in Kalobeyei - YouTube

The Kalobeyei settlement solar mini-grid project seeks to address the lack of sustainable energy supply in Turkana County, Kenya. The SUN-ESDS program provided both technical and financial assistance for the construction of more than 40 kilometres of low and medium voltage power distribution lines in the settlement. With the newly expanded 541 kWp capacity and 1.1 MWh of battery storage, the mini-grid currently provides energy access to around 2,200 customers (households, businesses, and social institutions).

UN High Commissioner for Refugees visits Kalobeyei settlement mini-grid in Kenya © GIZ Kenya/ Jackson Mutonga

On 23 October 2022, UN High Commissioner for Refugees, Mr. Filippo Grandi, visited the Kalobeyei settlement. Mr. Grandi emphasised: “People talk a lot about humanitarian-development-peace nexus, they need to visit the Kalobeyei Settlement mini-grid and experience it in 30 minutes”. The mini-grid, which is owned and operated by a private-sector company Renewvia Energy, serves as a classic example of how the humanitarian-development-peace nexus can be operationalized to provide sustainable solutions to refugees and host communities.

Contact persons Wilkista Onyanga and Jackson Mutonga

Project description

The Energy Solutions for Displacement Settings (SUN-ESDS) is a component of the BMZ commissioned Global SUN Programme with UNHCR. The Global Programme supports UNHCR in facilitating the operationalisation of the Global Compact on Refugees (GCR) in the Humanitarian-Development-Peace (HDP) Nexus.

» Energy Solutions for Displacement Settings - energypedia

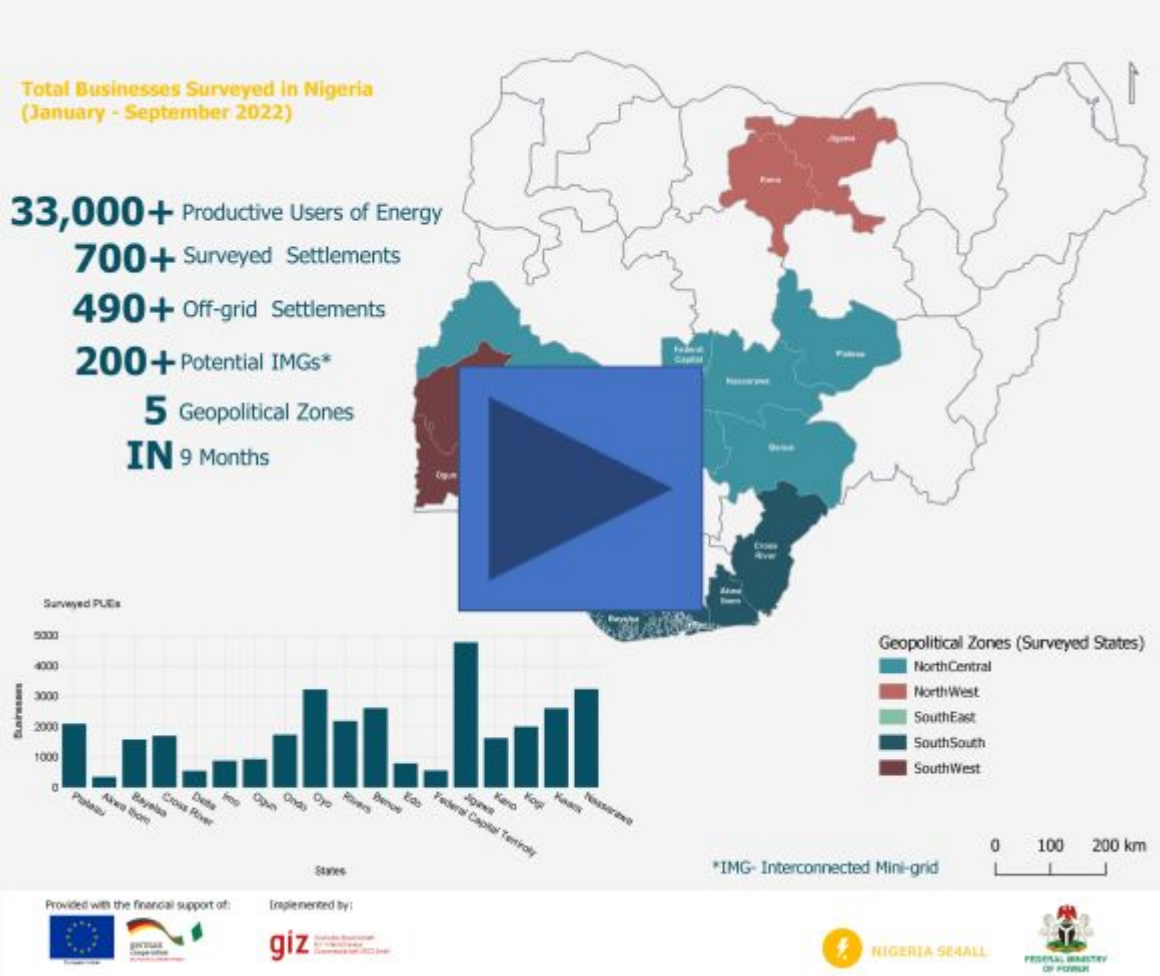
Further information

The SUN-ESDS project portal » ESDS Electrification (Mini-Grids) - energypedia

More information for GIZ staff only » UNHCR High Commissioner visits Kalobeyei settlement mini-grid in Kenya (sharepoint.com)

Data gathering for better electrification planning

Gathering ground-truth socio-economic data on the off-grid settlements is critical to foster electrification planning



The Nigeria SE4ALL Off-grid Settlement Survey Results © NESP

Ground-truth data is a key focus of the Nigerian Energy Support Programme (NESP) to provide a stronger basis for electrification planning in the country. Thus, NESP carried out field surveys in off-grid settlements to collect information about large energy consumers (businesses, productive users, and public institutions), as well as conduct a light assessment of energy supply in selected settlements.

From January to September 2022, a total of 33,496 potential productive use businesses were surveyed in over 702 communities, with 496 being off-grid settlements, covering 19 states in Nigeria. A large volume of this socio-economic data has been uploaded to OpenStreetMap and the Nigeria SE4ALL platform.

The gathered data has eased access to market intelligence on the status of off-grid settlements in view to foster electrification in forms of off-grid or inter-connected mini-grids. So far, public and private sector players have been trained to utilise the data to optimise their planning....

Contact person Milos Karic

Project description

NESP is a technical assistance programme co-funded by the European Union and the German Federal Ministry for Economic Cooperation and Development (BMZ) and is jointly implemented by GIZ in collaboration with the Federal Ministry of Power (FMP) in Nigeria.

» Nigerian Energy Support Programme II (giz.de)

Further information

» Nigeria SE4ALL

Getting ready for green investment - Cooperation with the financial sector in Senegal

Senegal

The training with bank agents of La Banque Agricole has a focus on photovoltaic and biogas applications © GIZ / Cathelle Deshayes

Renewable energy has great market potential in Senegal, but project developers continue to face significant hurdles to obtain financing in general, and in particular in local currency. Many domestic financial institutions are still new to the topic of financing for renewable energy and may not have suitable financial products or the necessary experience in credit analysis from green investments.

In this context, the project “Access to Finance for Small and Medium Enterprises” (Accès), implemented by GIZ in cooperation with GET.invest, aims to accelerating local financing in the decentralized renewable energy sector. Three financiers in Senegal, the Banque Agricole (LBA), Ecobank Sénégal and UM-PAMECAS will receive tailor-made training with individual coaching on-demand, which allows them to work on real cases and develop tools to assess the potential for renewable energy financing in their client portfolio. The trainings were held in March 2023 following coaching sessions over the next six months.

Contact person Yaëlle Graefe

Project description

The bilateral project “Access to Finance for Small and Medium Enterprises (Accès)" implemented by GIZ in close partnership with the Senegalese agency ADEPME aims to facilitate access to finance for SMEs and pilots activities in green finance.

» Enabling micro, small and medium-sized enterprises to invest (giz.de)

Further information

» Enabling the financial sector in Senegal to get ready for green investment - GET.invest (get-invest.eu)

Uganda: Predictive Evidence-Based Policy Making Tool Developed

Meet the Economy-Energy-Emission (e3.ug) Model – a tool that can predict a likely future!

Representatives from the Ministry of Energy and Mineral Development, GIZ Uganda and partners pose with a copy of guidelines for using the e3.ug modelling tool © Malaika Media/GIZ Uganda

Does it show how Uganda's renewable energy expansion will impact employment by 2030? –Yes!

Can it foresee prerequisites to achieving middle income status by 2040? – Yes!

Does it assess how energy efficiency improvements will affect GDP by 2050? - Yes!

Together with different stakeholders, GIZ and the Ugandan Ministry of Energy and Mineral Development have developed a tool for evidence-based policy making and planning. The tool, referred to as the Economy-Energy-Emission (e3.ug) model, simulates the long-term impacts of energy policy interventions, on the country's economy and environment.

The e3.ug model uses historical energy-, economic-, and emissions-data while referencing the latest policy documents. During its development, national experts formulated, analysed, and assessed policy scenarios, in relation to the business-as-usual scenario; whereby underlying assumptions were defined through stakeholder consultations. For sustainability, an interdisciplinary network of researchers and policy advisors has been trained to simulate and guide on climate-friendly policy measures.

Contact person Rosette Nagimesi

Project description
DIAPOL-CE – Policy Dialogue and Knowledge Management on Low Emission Development Strategies disseminates approaches to developing a resilient low-carbon economy in African and Western Asian countries.
In Uganda, the project is part of the GIZ Energy and Climate Cluster.
» Achieving a low-emission economy with climate and energy strategies (giz.de)

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Energy Transition in Bolivia: towards electric mobility

Bolivia

Urban public transport, towards an energy transition. La Paz, Bolivia © PEERR/GIZ

The energy transition in Bolivia is an issue of great importance due to its impact on the country's economy and the fight against climate change. Most carbon dioxide emissions come from fossil fuel consumption for transportation.

The energy transition seeks a change in the automotive industry with the incorporation of electric vehicles. In recent years, Bolivia began to implement regulations for the import of electric and hybrid vehicles, etc. The goal by 2030 is to achieve a 10% growth in the participation of electric vehicles in the public transport vehicle fleet in Bolivia. A goal that will be promoted with a proposal from the National Electric Mobility Strategy for Urban Public Transport of Bolivia, through a normative and regulatory framework to guide and accelerate development. Bolivia has one of the largest reserves of lithium in the world, and with its extraction there is a production of batteries.

The energy transition, while having an economic and social impact, aims to achieve a just and inclusive transition.

Contact person Michael Mechlinski

Project description
The Renewable Energy Program has been working in Bolivia since 2016 and aims to improve the technical, economic, legal and institutional conditions for the integration of renewable energies into the electricity system, and for the development of energy efficiency.
» Mayor uso de energías renovables (giz.de)

Further information
» Renewable Energies in Bolivia - energypedia

GIZ launches Energy Efficiency Portal in Brazil

The platform was built by the project Energy Systems of the Future to foster debates and actions on energy efficiency

A brand-new platform has been launched in Brazil: The Energy Efficiency Portal. Built by the project Energy Systems of the Future (ESF) and the Ministry of Mines and Energy, its objective is “delivering to society more transparency and social participation to promote energy efficiency policies in the country”, according to Ministry’s Secretary Thiago Barral.

The Minister Alexandre Silveira praised the portal as “an easy and affordable way to unite the Federal Government and the population in the search for more efficient and sustainable energy, generating better living conditions and more opportunities for all". While representatives of private companies and civil society celebrated its potential to join different sectors around energy efficiency measures.

Furthermore, a Digital Guide on Reconditioned Engines (another ESF accomplishment) was made available to the public, including interactive calculators to analyse the consumption of such equipment and to estimate when it is time to repair or replace it.

Contact person Nico Kohlhas

Project description
The project aims to improve the conditions for integrating renewable energy sources into the Brazilian energy system and for increasing the country's energy efficiency.
» Energy Systems of the Future in Brazil (giz.de)

Further information
» Energy Efficiency Portal (Portuguese only): Eficiência Energética — Ministério de Minas e Energia (www.gov.br)
» Digital Guide on Reconditioned Engines (Portuguese only) Home (guiademotores.com)
» Tutorial: Calculadora de Eficiência Energética em Motores - YouTube

First Electrical Vehicle Training Centres established in Brazil

Training professionals to work safely and create opportunities in a global market with the partnership among GIZ, SENAI and TÜV Rheinland

Theorical test for the certification © Marcelo Ramos/GIZ Brazil

GIZ and the European-Chilean consortium formed by Soventix Chile SpA, SI Solar Investments GmbH and Pabettin GmbH signed a contract to implement the Public-Private Partnership (PPP) project "SolarNH3-Pool Chile: Electric vehicles (battery and hybrid) represent an important tool in the decarbonisation of the mobility sector and, as in the rest of the world, their number is also rising in Brazil.

Therefore, the concern with the safety of the people working in this sector need to be considered and this represents an opportunity for the creation of sustainable jobs for the whole society.
With the support of GIZ Brazil's “Future Professionals: Skills for the Green Economy” project, the Brazilian TVET Institution SENAI established a training and certification partnership related to safety and maintenance of electric and hybrid vehicles with TÜV Rheinland.

The objectives of this initiative include an accreditation of SENAI trainings Centres by TÜV Rheinland to provide this training and, using the SENAI´s structure, to issue dual certification (national and international) valid for 3 years for students from all over the country.

Safety and sustainable opportunities in a growing market.

Contact persons Marcelo Ramos and Martin Studte

Project description
Future Professionals: Skills for the Green Economy
» Fomento à educação profissional e tecnológica para o desenvolvimento econômico verde (giz.de)
Increasing the employment prospects of professional education graduates in sustainable sectors of

the Brazilian economy contributes to green economic development, especially in the sectors of renewable energy, electromobility, circular economy, bioeconomy and digitalisation of the economy.

Further information

» SENAI - Serviço Nacional de Aprendizagem Industrial (portaldaindustria.com.br)

» Edilson Caldas auf LinkedIn: Lançamento dos Electric Vehicle Training Center - SENAI

» Lançamento dos Electric Vehicle Training Center - SENAI - YouTube (subtitles translated to English)

Opportunities for agriculture in mitigating the effects of climate change through renewable energies

International Webinar on AgroPV, organised by the Energy Partnership Chile-Alemania, the Ministry of Energy and the Fraunhofer Research Centre Chile, gathered more than 150 participants

Webinar Agro PV: Opportunity for Agriculture and the Energy Transition © GIZ Chile

Chile is one of the countries most vulnerable to climate change. Drought and changes in rainfall patterns are some of the effects that the agricultural sector has to face. In the last 20 years the Chilean wheat production reduced its surface from 400,000 to about 200,000 hectares.

Agro-PV is a system that integrates photovoltaic panels in agriculture to combine agricultural production and clean energy generation on the same land. An Agro-PV system can increase land use efficiency and enable other positive synergy effects for agriculture, such as climate protection of sensitive crops and improved water use efficiency.

Chile currently has three pilots of this technology advised by the Fraunhofer Institute, located in Lampa, Curacaví and El Monte. According to Fraunhofer Research Chile, the results show a 29% more humid surface due to the effects of partial shade.

The interactive event counted with presentations from the Ministries of Agriculture and Energy, a representative of one pilot project and an expert from the Indo-German Energy Forum (IGEF).

Contact person Michael Schmidt

Project description

The Energy Partnership Chile-Alemania started in April 2019, after the German Federal Ministry of Economics and Climate Action (BMWK) and the Chilean Ministry of Energy (MEN) signed a cooperation agreement. This partnership has a full-time secretariat in Santiago de Chile operated by the GIZ (Deutsche Gesellschaft für Internationale Zusammenarbeit GmbH). Its aim is to promote a sustainable energy transition.

Further information
All presentations and a recording of the event on the website of the Energy Partnership:
» Agro PV Oportunidad para la agricultura y la transición | (energypartnership.cl)

Cycle of webinars on the green hydrogen value chain ends with more than 3,000 attendees

These events registered an average of more than 400 attendees per session from more than 10 countries

Flyer of the last online seminar © GIZ 4e Chile

In the last few months, a series of seven online events were held to address different aspects related to the green hydrogen value chain, such as production systems, hydrogen certification and power-to-x products and fuel cell vehicles, among others.

These events, which registered an average of more than 400 attendees per session from more than 10 countries, were organised by the H2Uppp and Decarbonisation of the Energy Sector projects of the Renewable Energy Programme (4e Chile) of GIZ, both commissioned by the Federal Ministry of Economics and Climate Protection (BMWK) of Germany; together with the H2LAC Platform, whose objective is to promote the development of green hydrogen and its derivatives in Latin America and the Caribbean.

The last event, held on May 3, focussed on the certification of hydrogen and power-to-x products. Diego Alvarez from TÜV SÜD, presented the current certification models and the European Union's Renewable Energy Directive (RED II) for those who want to enter this market.

Contact person Cristian Fuentes

Project description

Since 2014 the 4e Programme of GIZ has been working in Chile to increase the sustainability of the energy sector and developing the green hydrogen.

Further information
More information of the H2Uppp and Decarbonisation of the Energy Sector projects available in the » Renewable Energy Programme (4e Chile) of GIZ
To know more about their work please visit » H2LAC Platform

Spotlight on Green Ammonia at the Second Hydrogen Congress in Colombia

Colombia, EU

Presentation on Power-to-X: Potential and implications for Colombia by Frank Mischler, PtX Hub © GIZ Colombia

Green ammonia is rapidly gaining momentum in Colombia. The country's private sector, especially the fertiliser industry, has developed several pilot projects on green ammonia to explore its potential for the Latin American country.

On one side, the Carbon Border Adjustment Mechanism (CBAM), the EU import tariff on carbon-intensive products, has already triggered discussions on implications for Colombian producers. More importantly, as recently discussed in the Second Hydrogen Congress in Colombia, the real potential for the country is based on its national needs. The estimated demand for fertiliser in Colombia is between 40,000 and 100,000 tons per year.

The International Power-to-X Hub promotes these potentials, for example through an upcoming study on green ammonia in Colombia. It focuses on finding country-specific use cases and potentials with PtX for economic development and climate protection.

Contact person Maren Schoettler

Project description
With Power-to-X (PtX), we can make any product traditionally based on fossil feedstocks with renewable electricity and carbon. The International PtX Hub is a knowledge and exchange platform to accelerate market development of PtX globally.
Read more about the activities in Colombia and 11 other countries here » Countries - PtX Hub (ptx-hub.org)
Our webpage » PtX Hub

Further information

» Mapa-regulatorio-GIZ.pdf (transicionenergetica.do)

Energy Transition Project presented an energy storage workshop

Energy storage: Energy Transition Enabler

Participants at the Energy Storage Workshop © Walmy Fernández

On April 27th, the interactive workshop "Energy Storage: Energy Transition Enabler" took place for technicians from the public and private energy sector.
The opening remarks of this seminar were given by the vice minister of Energy, Rafael Gómez, who explained the importance of having an adequate energy storage system since the country is going through a critical process of energy transition.

The electrical engineer and consultant, Ricardo Castillo, addressed the main themes, highlighting the importance of knowing the service life of energy storage systems, existing and future technologies, depth of discharge and the most effective remuneration schemes.

From his part, Fausto Pérez Santos, vice minister of Energy Security and Infrastructure, gave a few words of thanks on behalf of the head of the Ministry of Energy and Mines, Antonio Almonte, considering the importance of the workshop as a space for socialization around the topic of energy storage.

Contact person Yderlisa Castillo

Project description
Promotion of Renewable Energy to implement the Climate Targets of the Dominican Republic
» Project data

Further information

Ministry of Energy and Mines and the Energy Transition Project hold event to commemorate Women's Day

The institution’s employees were recognized for their passion, dedication, and tireless work that elevates the quality of the ministry's service

Speakers: Desiré Del Rosario, Center for Gender Studies at INTEC University; Yomayra Martinó, GreEnergy Dominicana and Paola Pimentel, Women of Renewable Energy in the Dominican Republic © Communication Department – The Dominican Republic’s Ministry of Energy and Mines

In the event hosted at the Ministry of Energy and Mines, a discussion was held between speakers Desiré Del Rosario, general coordinator of the Center for Gender Studies at INTEC University; Yomayra Martinó, founder of the company GreEnergy Dominicana; and Paola Pimentel, president of Women of Renewable Energy in the Dominican Republic.

These presentations took place in commemoration of the International Women's Day and highlighted the need to encourage and promote the development of policies to reduce gender gaps and increase the participation of women in the energy sector.

The activity was organized by the Gender Equity Unit, with the support of the Energy Transition Project, and was attended by the head of the institution, Minister Antonio Almonte, and various other high-level figures of the ministry.

At the end of the commemorative event, women collaborators from the ministry were recognized for their work that elevates the quality of the institution.

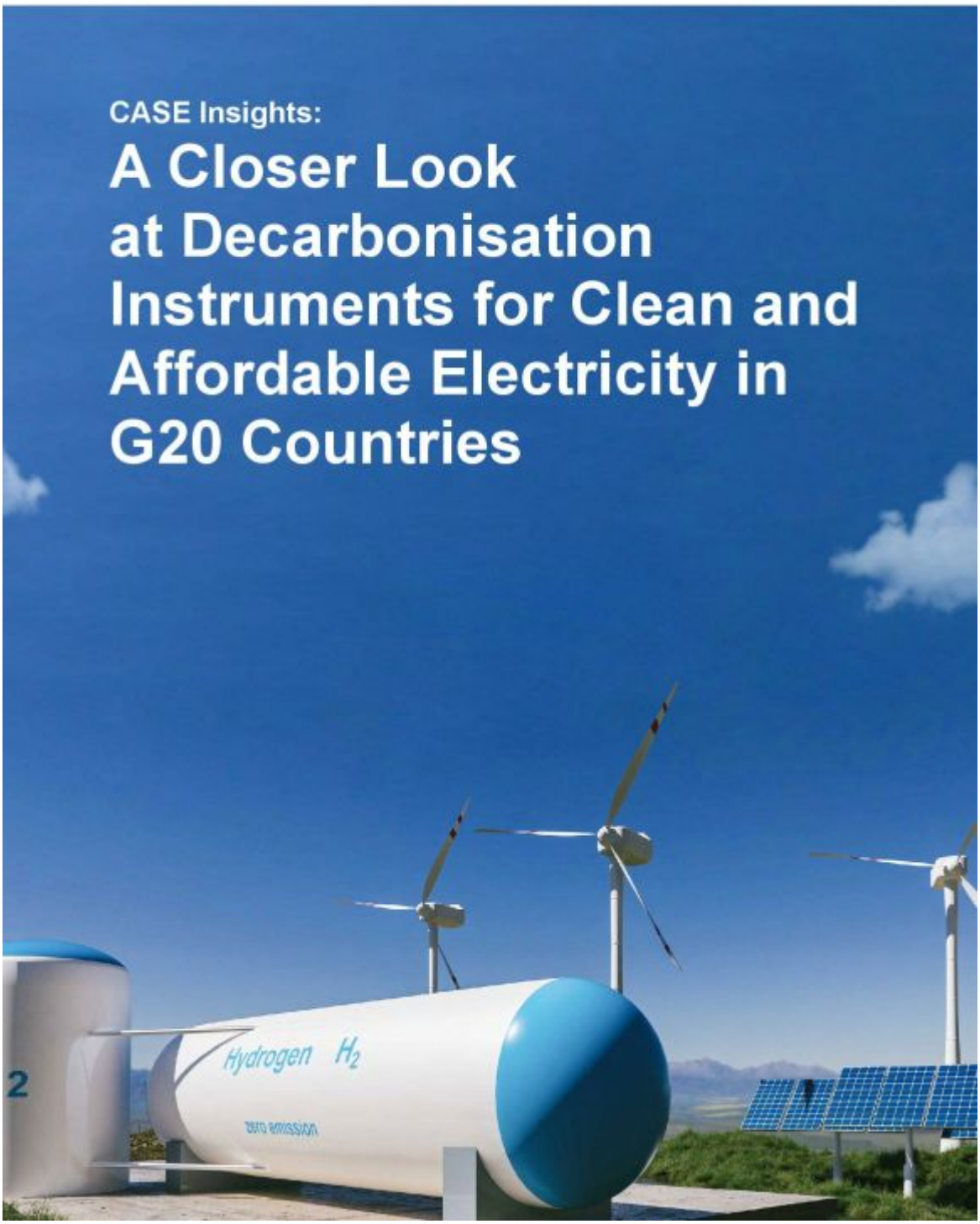
Contact person Yderlisa Castillo

Project description
Promotion of Renewable Energy to implement the Climate Targets of the Dominican Republic.
» Project data

Further information
» Inicio - Proyecto Transición Energética (transicionenergetica.do)

CASE Insights from Indonesia

A Closer Look at G20 Countries' Decarbonisation Instruments for Clean and Affordable Electricity



Cover page a closer look at G20 countries' decarbonization instruments for Clean and Affordable Electricity ©CASE Indonesia

Building upon the discussion, jointly hosted by Bappenas and CASE, amongst the G20 Development Working Group presents further evidence on how decarbonisation instruments are implemented in Indonesia, South Korea, South Africa and Germany. It is evident that sustained assistance from the government is needed to encourage renewable energy innovation and phase out fossil fuels. Examples showcased in this CASE Insights include Germany's hard-coal exit reverse-auctioning

mechanism and South Africa's carbon tax. Decarbonisation instruments should help shift investments toward a low-carbon economy, generating revenues to finance green infrastructure and enable a just and affordable energy transition.

Contact person CASE Indonesia

Project description
» Promoting evidence-based narrative of energy transition in Southeast Asia (giz.de)
» CASE Insights: A Closer Look at Decarbonisation Instruments for Clean Affordable Electricity in G20 Countries

Focus Group Discussion on Power Sector Carbon Pricing Implementation

The Influence of Socio-cultural Perspectives on the Energy Transition Narrative in Bali

Panellist of the Focus Group Discussion (FGD) and participants in the venue © CASE Indonesia

A focus group discussion organized jointly by CASE (Clean, Affordable and Secure Energy for Southeast Asia) and the Ministry of Energy and Mineral Resources was held on January 31, 2023, to identify challenges, opportunities, and capacity building needs for power producing companies to ensure a well-implemented carbon trading system. Detailed information can be found under "Further information".

Contact person CASE Indonesia

Project description
» Promoting evidence-based narrative of energy transition in Southeast Asia (giz.de)

Further information
» Caseforsea.org
» Focus Group Discussion on Power Sector Carbon Pricing Implementation - CASE for Southeast Asia (caseforsea.org)

Supporting Renewables and the Utilization of Bioenergy, Official Licensing for Biogas in Indonesia is Issued

Opening further opportunities to invest in biogas in Indonesia

Launching PERIZINAN BIOGAS sebagai Bahan Bakar Lain - YouTube

ExploRE continues to support Indonesia to achieve renewable energy mix target, one of which was through the launch of the Standard Classification of Indonesian Business Fields (KBLI 35203) on 09/03/2023, in collaboration with Indonesian ministries (ESDM, BKPM) and GGGI. KBLI 35203 is the Indonesian standard business classification code that typify the segmentation and requirements of business activities for selling upgraded biogas or biomethane gas to the public or other business entities. This code is used to identify business entities, regulations and risk classifications.

The Biogas Licensing was launched by the Director General of MEMR and the Deputy of Ministry of Investment © GIZ Indonesia, 2022

The launch of KBLI 35203 created a momentum for key players in the biogas sector to develop their business, through biogas upgrading and production of biomethane, which can be produced through advanced processing of biogas.

In addition to the abundance of raw materials (agro-industrial waste), biomethane market potential is also promising, to substitute LPG, natural gas, and diesel fuel in industry, commercial business, and diesel power plants, as well as utilisation through gas injection points.

Contact person Dody Setiawan

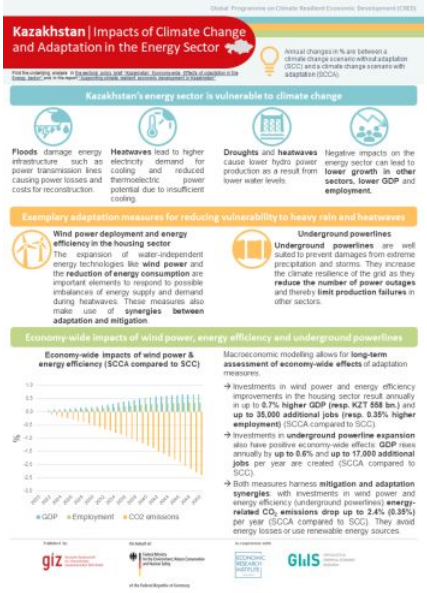
Project description

Strategic Exploration of Economic Mitigation Potential through Renewables (ExploRE) is a project jointly implemented by GIZ and the Indonesian Ministry of Energy and Mineral Resources.

» Project data

Adapting Kazakhstan’s energy sector to climate change

How macroeconomic modelling contributes to climate resilient economic development



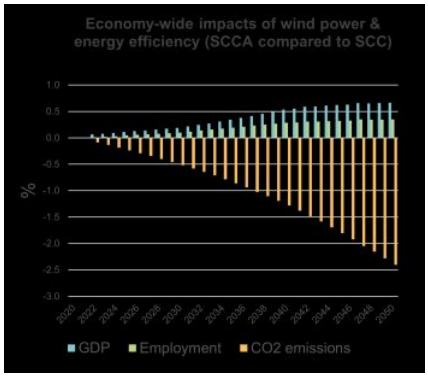
Economic effects of investments in wind power and increasing energy efficiency in housing sector (differences in percent compared to heatwave and drought scenario) © GIZ

Climate change negatively impacts more and more economies worldwide. Macroeconomic modelling for climate resilient development makes the economic long-term effects of climate change visible and supports decisionmakers to identify the most efficient adaptation options for their context.

The recently published infographic on “Impacts of Climate Change and Adaptation in the Energy Sector” demonstrates the benefits of macroeconomic modelling for the Kazakh energy sector. The infographic illustrates exemplary modelling results for adaptation and mitigation measures, such as building underground powerlines, deploying wind power and improving energy efficiency in the housing sector.

Droughts and heatwaves feature among the most pressing climate hazards in Kazakhstan. The figure below shows the effects of wind power and increasing energy efficiency in the housing sector.

The modelling demonstrates that the synergy of wind power and increasing energy efficiency in the housing sector annually creates up to 35,000 additional jobs and a GDP increase of up to 0.7% compared to a scenario without adaptation – considering the time period up to 2050.



The infographic provides information on economic effects of investments in wind power and increased efficiency in the housing sector. Over a period of 30 years, GPD increases annually up to 0.7%, while employment increases up to 0.35% annually. Energy-related emissions decrease up to 2.4% annually © GIZ

Contact person Stefanie Springorum

Project description

The GIZ-led IKI programme “Policy Advice for Climate Resilient Economic Development (CRED)” supports Kazakhstan, Georgia, and Vietnam in integrating climate risks into macroeconomic modelling to enhance climate resilient economic development. Country-specific models, owned and run by partners, enable tailormade adaptation solutions and reduce economic risks in the long run.

Further information

» GIZ project page
» CRED IKI
» Infographic “Impacts of Climate Change and Adaptation in the Energy Sector”

Clean Energy – Green Earth” Responding to the Earth Hour 2023

Let’s make sustainable choices not just during within 60 minutes of Earth Hour but in everyday lives

“Green Energy – Clean Earth” Event © GIZ Viet Nam

In response to the Earth Hour 2023, “Clean Energy – Green Earth” – a public event has been organized in the pedestrian zone around Hoan Kiem Lake, Hanoi.

With the desire to create an open space for community, especially young generation to obtain clean energy-related knowledge and energy transition process. The CASE Project has showcased PV solar model, agricultural by-product as resources for biomass boiler, and explanations for wind energy technology.

Interactive learning games like Kahoot quiz or assembling car models with PV solar draw great attention from kids and youth.

“Green Energy – Clean Earth” Event © GIZ Viet Nam

“Clean Energy – Green Earth” aims to make “renewable energy” and “energy transition” become a more familiar topic to the community, consequently, every individual better aware of their role in helping the country achieve its Net-zero goal. It was funded by the Ministry for Economic Affairs and Climate Action (BMWK) and supported by Vietnam Electricity and the Hoan Kiem District People’s Committee.

Contact person Vu Chi Mai

Project description

The Clean, Affordable and Secure Energy for Southeast Asia (CASE) project aims to support Southeast Asian partner countries in the transition to a future energy system that provides reliable and affordable energy to the people while increasing political ambition to comply with the Paris Agreement. Through a comprehensive approach, including public, private and research organisations, CASE contributes to shifting the narrative of the energy sector in Thailand, Indonesia, the Philippines and Viet Nam towards an evidence-based energy transition.

» Home - CASE for Southeast Asia (caseforsea.org)

» GIZ - Clean, Affordable and Secure Energy for Southeast Asia (CASE) (gizenergy.org.vn)

Further information

» “Clean Energy – Green Earth” Event responding to the Earth Hour 2023 - CASE for Southeast Asia (caseforsea.org)

Local Authorities in the Western Balkans Tackling Climate Change with Small-Scale Projects

South-East Europe

Ten small-scale projects to boost the Sustainable Energy and Climate Action in the Western Balkans © GIZ

Local governments in the Western Balkans are taking action to fight climate change and improve their citizens' quality of life. As part of the EU4 Energy Transition: Covenant of Mayors in the Western Balkans and Türkiye project, ten municipalities and cities from the Western Balkans were selected through public calls and will receive technical and financial support to implement small-scale projects in energy, transport and climate protection.

Selected projects will benefit people and the environment. For example, children with disabilities in Bosnia and Herzegovina will have access to sustainable transport solutions, while smart public lighting systems will save energy and increase public safety in North Macedonia. Solar power generation will be installed in municipal buildings in Kosovo and Serbia and in a wastewater treatment plant in North Macedonia. The rooftop of a municipal cultural center in Montenegro will be insulated to reduce its energy consumption. Projects were chosen for their social and environmental impact, potential for replication and scalability, and alignment with local energy and climate policies.

Contact person Quentin Bayart

Project description

EU4 Energy Transition: Covenant of Mayors in the Western Balkans and Türkiye is implemented within the Open Regional Fund for South-East Europe –
Energy, Transport and Climate Protection (ORF-ETC) – promoting regional cooperation in the Western Balkans for improved implementation of energy, transport and climate-protection measures in line with EU standards.

» Energy, Transport and Climate Protection in South-East Europe (giz.de)

Poland’s first energy cooperatives as part of a sustainable energy transition in rural areas

Poland

Panel discussion during the RENALDO conference in Warsaw 01-02.03.2023 © RENALDO

To conclude the RENALDO project, a conference with more than 200 participants was held on 1 and 2 March 2023 in Warsaw under the banner ‘Energy cooperatives as part of a sustainable energy transition in rural areas’.

On the first day, participants learned about the energy cooperative model and its advantages, and about experience from European energy cooperatives in Italy, Greece and the Czech Republic. On the second day, experts from the project presented the RENALDO calculator and the legal basis for energy cooperatives and provided practical information on founding and operating energy cooperatives.

When the project was first launched in 2020, there were only two registered energy cooperatives – this had increased to eight by the end of the project. Although this figure is still modest, we can assume that the high level of interest will be reflected in the founding of new energy cooperatives in the near future and thus in the creation of new local and green energy markets.

Contact person Paulina Spiller

Project description
The RENALDO project supports the expansion of the local renewable energy markets in rural areas in Poland by providing technical support to seven municipalities from Podlaskie and Kuyavian-Pomeranian regions and ensuring the municipalities have taken concrete preparatory steps to establish their energy cooperative.
» Supporting the energy transition and rural development (giz.de)

Further information
» RENALDO - Rural Development through Renewable Energy Sources - EUKI

Ukrainian cities continue renovation during ongoing war

Materials for reconstructing Myrhorod distribution heating network © Myrhorod City Council

During the year of the war, Ukrainian cities had to overcome multiple challenges – occupation, liberation battles, blackouts and rebuilding of the energy infrastructure. GIZ supports and encourages them to rebuild greener and better through pilot projects.

The only way to win in this energy battle is to be one step ahead. That is why 18 selected municipalities receive the 100 000-Euro grants during 2022-2024 to implement energy efficiency and critical infrastructure projects. The financing is provided by State Secretariat for Economic Affairs (SECO).

One of the cities - Myrhorod is working on reconstructing of the distribution heating network, which provides heat to 3148 inhabitants. As a result, its energy consumption will decrease by 52%, which will reduce the load on the city's heating network, as well as decrease CO2 emissions. Implementation of such pilot projects not only helps cities to resist, but also encourages them to rebuild their infrastructure in an energy-efficient way. This is an important experience and GIZ's support helps cities to get through it smoothly.

Contact persons Nataliia Vlasiuk and Oleksandra Shalina

Project description.
The project is implemented in Ukraine by GIZ GmbH on behalf of the German and Swiss governments to strengthen the energy capacity of the country and ensure regulatory frameworks for energy efficiency in Ukraine are being used to better effect.
» Raising energy efficiency in Ukraine (giz.de)

Further information only for GIZ staff
» IDA full success story

• • • MENA • • •

Germany strengthens its commitment to Algeria's “Green Municipalities project"

A successful partnership renewed!

Ceremony of signature © GreenMunicipalitiesProject

Germany's GIZ and Algeria's Ministry of Interior, local collectivities, and Territory planning MICLAT, have signed an amendment to the implementation contract for the "Green Municipalities" project, which aims to promote the energy transition of municipalities in Algeria.

Green Municipalities has already achieved significant results, including the establishment of municipal energy management units and improved street lighting installations. The project also supports the professionalization of public institutions in implementing solar installations in compliance with international standards. So far, participating municipalities have achieved over 786,575 kWh/year of energy savings and CO2 emissions reduction of 367.63 t/year through street lighting substitution, and the rehabilitation of two PV installations supported by the project.

© GreenMunicipalitiesProject

Green Municipalities’ outlook is promising, with new PV installations to be implemented, support for more pilot municipalities, and the development of further trainings on PV and energy efficiency. The project also aims to implement an energy management dashboard, support educational structures, and develop a regulatory text for low-voltage grid injection.

Contact person Nadya Salama

Further information

» Factsheet Projet "Communes Verte"
» COMMUNES VERTES (communes-vertes.org) (Under construction / soon to be launched)

15 Years of Egyptian-German Cooperation on Sustainable Energy Development

Arab Republic of Egypt & Federal Republic of Germany

15 Years JCEE © Hesham Mohamed

The Egyptian-German Joint Committee on Renewable Energy, Energy Efficiency, and Environmental Protection (JCEE) celebrated its 15th year anniversary of successful collaboration and support of the electricity sector in Egypt. Since 2008, JCEE has been working together with its political partner the Ministry of Electricity and Renewable Energy and its affiliated entities on paving the way for sustainable energy infrastructure in Egypt.

During the celebration, JCEE's achievements, both past and present were highlighted. These include supporting the establishment of regulations and frameworks for renewable energy and energy efficiency as well as the promotion of disseminating renewable energy technologies and applications, capacity building, technical support, and the restructuring of partner entities. Additionally, JCEE's efforts have resulted in upscaling climate mitigation actions through numerous activities throughout the sector.

JCEE's continues to support Egypt's green energy transition and COP27 key outcomes for climate change mitigation.

Contact person Laura Wiehler

Project description
JCEE enables sustainable electricity production and consumption in Egypt through supporting measures in renewable energy and improving, energy efficiency and climate change mitigation.
» JCEE Website

Upskilling energy experts in Jordan for a sustainable energy revolution

Jordan / Germany

Graduation Ceremony of the German Energy Academy in Jordan © Al Hussein Technical University (HTU)

The German Energy Academy in Jordan is a regional up-skilling center for renewable energy, energy efficiency, smart grids and digitisation for a wide range of professionals. As of 2023, 150 students have successfully finished courses at the academy and 39 AHK certificates have been granted in a first graduation ceremony. To meet the demand for upskilled workforce in the fast moving and growing energy sector, the GEA was established in 2021 through the support of the Jordanian German Energy Partnership. Commissioned by the German Federal Ministry for Economic Affairs and Climate Action (BMWK) and implemented in partnership with the Jordanian the Ministry of Energy and Mineral Resources (MEMR), the GEA offers a wide spectrum of trainings. They cover such diverse areas as photovoltaics design and operation, storage technology or energy efficiency. Subsequently, graduates are offered the opportunity to complete internships at German partner companies.

Contact person Alexander Victor

Project description
The German Energy Academy in Jordan (GEA) is a regional up-skilling center for renewable energy, energy efficiency, smart grids and digitization for a wide range of professionals.
» Home - Gea Jordan Academy (gea-jordan.academy)
» German Energy Solutions - Projektentwicklung (german-energy-solutions.de)
» Auf in neue Märkte! mit dem Projektentwicklungsprogramm (PEP) (giz.de)

Further information
» GEA Graduation Ceremony of First Batch - GEA Academy (gea-jordan.academy)

Digitising municipal energy management

Piloting digital monitoring and controlling solutions across Pakistani cities

Digital energy management is a widely unknown topic to the public sector in Pakistan. On behalf of the German Federal Ministry for Economic Cooperation and Development (BMZ), GIZ Pakistan has carried out pilot installations in eight partner cities across KP and Punjab for digital data monitoring and control in various municipal service sectors, like water and sanitation, streetlights, buildings, and fleet management. The installations showcase the great potential that digitisation of municipal energy management holds to

Energy Management System Installation © GIZ Pakistan

make municipalities operate more efficiently and thus reduce the high energy costs Pakistani cities are facing.

Complimented by comprehensive training measures for municipal staff how to accurately monitor and analyse the digital data, the efforts contribute to the overall goal of introducing holistic Energy Management Systems (EnMS) in all partner cities. Implementing EnMS allows them to better understand their energy flows to take informed decisions and coordinated actions to optimise municipal energy consumption.

Contact person Mohammad Irshad Khan

Project description

Achieving better energy efficiency in Pakistan through better energy management systems

» Achieving better energy efficiency in Pakistan through better energy management systems (giz.de)

• • • GLOBAL • • •

Catalogue for e-waste management

EnDev is a proud co-editor of a catalogue that provides an overview of the End-of-Life (EoL) challenges from solar equipment

Modern e-waste management systems are still largely absent from most off-grid areas © Flickr/Erik (HASH) Hersman

As one of the largest energy access programmes in the world, EnDev is contributing to the protection of ecosystems by, for example, replacing usage of non-renewable biomass and fossil fuels with renewable energy. EnDev CO_2e emissions savings accumulated to 19.5 million tonnes by the end of 2021.

However, even renewable energy technologies create waste, so EnDev is also supporting the introduction of sustainable e-waste management. The lack of formal recyclers and a regulatory framework for e-waste in most countries means that non-functioning equipment is simply stored or thrown away in wild dumps.

EnDev is a proud co-editor of a publication that aims to support planners, managers and service operators in over 20 EnDev countries and beyond. The goal is to ensure that hazardous waste and pollution risks associated with the e-waste produced by energy access projects are being mitigated.

Contact persons Isabella Lehmann

Project description
EnDev is a strategic partnership of likeminded donors and partners to support access to modern energy. Access to modern energy is a prerequisite for social and economic development. EnDev works in more than 20 countries around the globe.
» Website endev
» Enabling access to climate-friendly energy supply (giz.de)

Further information
» Rural Electrification: End-of-Life Management in Solar Energy Access Projects – EnDev
» How EnDev is contributing to the protection of ecosystems – EnDev

2nd “Women Energize Women” Conference starts on the 15th of June in Munich – registrations open!

Topic: Financing the energy transition and investing in women

2nd Women Energize Women Conference starts on the 15th of June © GIZ GmbH / Nadine Stegemann

On June 15, 2023 the “Women Energize Women” Conference in the context of Smarter E Munich, presents experts from the global renewable energy sector discussing urgent energy issues from a gender sensitive perspective. As the first of its kind, the conference provides a stage for exclusively female energy experts – and spotlights the role of women in shaping the global energy transition.


© GIZ GmbH / Nadine Stegemann

This year’s conference will focus on investment and financing strategies for renewable energies. In addition to talks and panels, the conference will feature educational workshops and opportunities for committed female change-makers to exchange and cooperate. Furthermore, a side event of the conference with a focus on the MENA region will take place on June 16.

The conference is part of the #womenenergizewomen# campaign for the global empowerment of women in the energy sector by the Federal Ministry for Economic Affairs and Climate Action (BMWK). It is implemented by the GIZ and the German Renewable Energy Federation (BEE e.V.) within the framework of BMWK’s Bilateral Energy Partnerships.

Register below!

Contact person Katarzyna Rezza Vega

Project description
The Women Energize Women campaign for the global empowerment of women.
» Women Energize Women – Conference

The “Women Energize Women” conference is part of the “Women Energize Women” communication initiative, which was launched in November 2021 – to empower, motivate, inform, inspire and connect women in the energy sector from across the world offering interactive events and inspiring role, making female voices in the energy sector heard. It has already reached more than 5.3 million people via Twitter, LinkedIn, YouTube and Instagram.

Further information

» Information on the “Women Energize Women” conference
» Registration for the “Women Energize Women” conference

Inclusive E-Mobility at the TUMI Conference 2023

Creating just and inclusive workplaces in the e-mobility sector

Female bus driver program in Jalisco, Mexico © Govierno de Jalisco

The TUMI2023 Conference “Feminist Voices in Transport” will take place once again on May, 23rd in Leipzig, Germany, as part of the International Transport Forum (ITF). This year’s spotlight is on the importance of planning inclusive mobility projects that promote gender equality, social resilience and tackle climate change. Over 100 sustainable transport and gender experts will gather to discuss and exchange experiences and ideas during the conference's sessions.

In the breakout-session “Just workplaces and jobs with a focus on e-mobility” we'll take a deep dive into gender inclusion in the e-mobility sector, examining the challenges and opportunities for improving the quality of services and working conditions for women. Our all-women panel will share their experiences, insights and strategies to overcome gender-related barriers to ensure equal access to opportunities and training. This session will leave you with a wealth of knowledge on how to create just and inclusive workplaces in the e-mobility sector. Don't miss out! Read more under "Further information".

Contact person Jens Giersdorf

Project description
TUMI (Transformative Urban Mobility Initiative) is the leading global implementation initiative on sustainable mobility formed through the union of 11 prestigious partners.
» Transformative Urban Mobility Initiative (transformative-mobility.org)

Further information
» TUMI2023 Conference - TUMI2023 Conference.org)(transformative-mobility

SPIREC urges for a quicker deployment of renewable energy and declares Year of Renewables

The Spanish Government hosted the 9th International Conference on Renewable Energies in Madrid, co-organized by REN21

AI- generated image from REN21 future booth at the SPIREC © REN21

Participants at SPIREC (International Renewable Energy Conference in Spain) agreed to build on the momentum created by the converging occasions of SPIREC, the SDG7 review, the COP28 by making 2023 the Year of Renewables. A Consensus was reached to take action to accelerate the energy transition and increase renewable generate capacity, with the objective to mobilise and create societal support for the energy transition. These efforts should culminate in the next International Conference on Renewable Energies, to be held in Adelaide, Australia in April 2024, called AUSIREC 2024.

Participants also agreed to move forward on developing continuous nexus dialogues to bring together stakeholders from different sectors. "The more brains and energy around the table, the faster we will transition all together", said REN21 Executive Director Rana Adib. Founded in 2005 on a German initiative, REN21 is a global community of renewable energy stakeholders recognised as a neutral data and knowledge broker.

Contact person Kerstin Linden

Project description
The project supports the German Federal Ministry for Economic Cooperation and Development (BMZ) in promoting the energy transition worldwide.
» Promoting the energy transition in development cooperation

Further information
» Spanish International Renewable Energy Conference (SPIREC 2023) - REN21

New look, usual quality: first module of Renewables Global Status Report 2023 collection is out

Despite the momentum for renewables generated by the energy crisis, the overall transition to renewables is not happening fast enough

Cover of REN21 first module on energy demand of its 2023 collection © REN21

This is the main conclusion of the first part of REN21's recently published Renewables Global Status Report 2023 collection. Since 2005, REN21 has worked with thousands of contributors (including GIZ colleagues) to highlight ongoing developments in the field of renewable energy.

The first module focuses on the energy demand side in the buildings, industry, transport and agriculture sectors. It points out that policy mechanisms have an important role to play in driving the further deployment of renewables. While 94 countries had policies targeting at least one sector, only Spain, Portugal and Turkey had policies in place for all four demand sectors. The report also outlines the need for greater precision in policy mixes, which often send mixed messages.

Future modules, due to be released by June 2023, will focus on renewable energy supply, systems, and infrastructure, with modules on the socio-economic benefits and a global overview of renewables to follow.

Contact person Kerstin Linden

Project description
E-KORE, the project supports the German Federal Ministry for Economic Cooperation and Development (BMZ) in promoting the energy transition worldwide.
» Promoting the energy transition in development cooperation

Further information
» Global Status Report 1st module

Energypedia – celebrating more than 10 years of knowledge sharing

Share your valuable project knowledge on energypedia.info

Energypedia – share your knowledge and experience © energypedia

Knowledge sharing is a key for reaching SDG 7 on affordable and clean energy. But, in many cases, valuable project experiences are shared only among colleagues or partners, and not across different organisations or other countries. Important lessons learnt are sometimes even getting lost when a project ends. To avoid that, the wiki website provides a well-known platform where energy experts worldwide can openly share their knowledge, present outcomes and make it accessible to others.

Energypedia UG took over the operation of the page energypedia.info from Energising Development (EnDev) in 2012, thus celebrating its 10th anniversary last year. It currently hosts 5,700 articles, contributed by more than 11,850 energy experts, and reaches around 90,000 visitors per month.

The platform has developed knowledge products with partners such as GIZ, UNITAR, International Red Cross, Oxfam, universities and others, and is happy to cooperate with your project, too! Detailed information to recent co-operations with GIZ can be found under "Further information".

Contact person Lisa Feldmann

Project description
Energypedia is a knowledge platform on renewable energy, energy access and energy efficiency in developing countries. Energy experts from all around the world contribute their knowledge and share experience.
» energypedia
» energy solutions – made in Germany - with the Project Development Programme (PDP)
» Das Programmentwicklungsprogramm (PEP)

Further information
» Mozambique Off-grid Knowledge Hub - energypedia
» Energy Efficient Building Refurbishment in Mongolia - energypedia
» Distribution System Operation Toolbox - energypedia
» Portal:Water and Energy for Food - energypedia

PUBLICATIONS

IEA “Credible Pathways to 1.5°C – Four pillars for action in the 2020s”

In April 2023, the International Energy Agency (IEA) published a 17-page policy paper entitled Credible Pathways to 1.5°C: Four pillars for action in the 2020s. The paper identifies four critical areas where accelerated action is needed to limit temperature rise to 1.5°C by 2100. It is based on energy scenarios from the World Energy Outlook 2022 and the Intergovernmental Panel on Climate Change (IPCC).
» Credible pathways to 1.5°C – Analysis - IEA

IRENA Preview "World Energy Transitions Outlook 2023 - 1.5° C Pathway"
WETO is IRENA's flagship annual publication and is designed as a counterpart to the International Energy Agency's (IEA) World Energy Outlook, which is traditionally used by business and policy makers worldwide as a reference for the future development of the energy sector. This statement is based on a preview published on the occasion of the Berlin Energy Transition Dialogue 2023 (BETD) with highly aggregated key statements of the report expected for the end of June.
IRENA presents a 1.5°C scenario (1.5°C-S) in WETO, in line with the goals of the Paris Climate Agreement and the projections of the International Panel on Climate Change (IPCC), compared to a Planned Energy Scenario (PES) that forecasts future development based on currently existing and announced targets and policies (comparable to a baseline scenario). The report presents options for action to limit global temperature rise and reduce CO2 emissions to net zero by 2050. It provides insights into the technologies required to achieve this, investment needs, and necessary policy and regulatory frameworks. It also highlights the socio-economic implications of a sustainable, resilient and inclusive energy future.
» World Energy Transitions Outlook 2023: 1.5°C Pathway; Preview (irena.org)

REN21 Global Status Report 2023 – Renewables in Energy Demand
Since 2005, the Renewables Global Status Report (GSR) by REN21 has highlighted ongoing developments and emerging trends shaping the future of renewables, with contributions from hundreds of experts. This year marks the 18th edition of the GSR, which has been updated with a new design and structure to reflect ongoing changes in the global energy landscape.
The GSR 2023 collection includes five publications: Renewables in Energy Demand, Renewables in Energy Supply, Renewable Energy Systems and Infrastructure, Renewables for Economic and Social Value Creation, and the Global Overview. Each publication covers three key areas, namely, renewable energy targets and policies, finance and investment, and market developments. Additionally, it provides an overview and case studies. The first publication in the collection, Renewables in Energy Demand, is now available.
» Renewables 2023 Global Status Report

GIZ JOB OFFERS

Here you can either upload an unsolicited application or apply directly for our published vacancies. Plus, you can register for our job subscription that will automatically inform you about new vacancies according to your search criteria.

Please visit » Job and careers

Current Vacancies

» Bonn: Advisor (m/f/d) for GIZ's own measure "Partnerships to Accelerate the Global Energy Transition (PACT)"
Job-ID: V000054845
Application Deadline:05/21/23

» Rabat: Leiter*in des Großvorhabens Energieeffizienz Marokko
(German only)
Job-ID: VV000050889
Application Deadline: 06/04/23

» Luxemburg: Expert (m/f/d) Energy efficiency
Job-ID: V000055067
Application Deadline: 06/30/23

» Luxemburg: Expert (m/f/d) Electrification
Job-ID: V000055066
Application Deadline: 06/30/23

INFORMATION and LINKS

GIZ – International Fuel Prices
To subscribe, please contact Armin Wagner.

GIZ offers a range of company-wide and subject-specific newsletters, e.g. on the topics of 'Transport and Mobility', 'Low Emission Devleopment & Renewable Energy' (English/French), and many more. The various newsletters are listed on » GIZ's newsletter description page.

» Browse back issues of GIZ's energy newsletter.

Energising Development Bolivia (English / Spanish)
» Newsletter + Energy

» The Global Energy Transformation Programme - GET.Pro

» Energising Development – EnDev

» Energypedia

» REN21

» IRENA

» IEA

» SE4ALL

» Powering Agriculture (energypedia.info)

» German National Hydrogen Council (NWR)

In a nutshell

The english website of the German National Hydrogen Council (NWR) is now online!
Visit » German National Hydrogen Council (NWR)

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