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Federal Ministry for the
Environment, Nature Conservation,
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of the Federal Republic of Germany

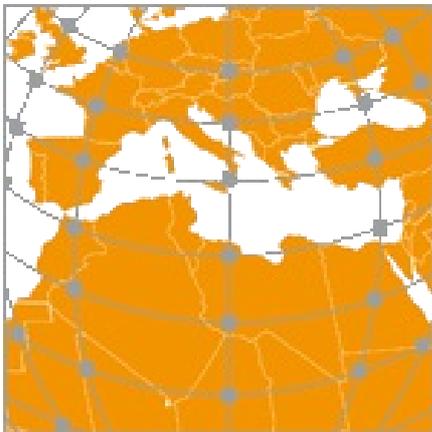
Issue no. 12 | December 2017

Low emission development & renewable energy Newsletter

News on initiatives in the MENA region

by the project „Policy dialogue and knowledge management on climate and energy“

Dear readers,



Diapol Map | © GIZ

The Fiji term "Talanoa" was chosen to name the dialogue, which aims to encourage the international community for taking more ambitious action to limit the global warming to below two degrees Celsius as agreed in Paris in 2015.

This dialogue started last month at the international climate conference COP23 under the presidency of Fiji. Talanoa describes a conversation in which the involved partners share ideas and resolve problems. Under the leadership of Fiji and Poland, this dialogue aims to bring together contributions from the scientific sector, industry and civil society, as more ideas and practical solutions are necessary to turn towards a path of a low carbon economy.

In the past year, we have reported about projects in the MENA region implementing the idea of climate friendly development by supporting energy efficiency and renewable energy use. Also in this issue - the last in 2017 - we would like to inform you about interesting projects in Jordan, Tunisia, Morocco and Turkey.

For the coming year we wish you good luck, success and many more ideas!

Anita Richter

Project Leader "DIAPOL-CE Policy dialogue and knowledge management on low emissions development strategies in the MENA Region" (contact: diapol-mena@giz.de)

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EU Emissions Trading System

Agreement on revision



© European Commission

by Ms. Mine Nang, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

The European Parliament and Council reached an agreement on a comprehensive reform of the EU Emissions Trading System (EU ETS).

The system is still suffering from a low carbon price due to a surplus of emission certificates, leading to weak incentives for private businesses to invest in low carbon technologies. A

crucial modification is therefore the removal and cancellation of surplus certificates from 2019 on.

Additionally, the allowance surplus will be removed twice as quickly as previously planned. From 2019, 24 percent of the surplus will be removed from the market annually and transferred to the market stability reserve. This will establish shortage-related price incentives for emissions cuts in time for the next trading period. The possibility to eliminate the surplus certificates leads to a real reduction of overall emissions, whereas the previous design of the ETS allowed to restore the certificates from the market stability reserve.

From 2023, the number of allowances held in reserve cannot exceed the number auctioned off in the previous year. Allowances above this limit will be removed from circulation for good. Furthermore, the interlinking of emissions and national measures has been implemented to avoid that one country's savings could be emitted by another country.

Further information: www.europa.eu



Germany's Climate Strategy After the Election

At the heart of sounding talks for future government

by Mr. Philippe Röske, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

After this year's election, political parties are called to discuss possible coalition to compose the next German government.

This first round of sounding talks with the CDU/CSU, Greens and FDP had come to a sudden end. On 22 November 2017, the FDP pulled out of the talks surprisingly due to not being able to find a compromise on potential targets with the other parties. The withdrawal of the FDP was unexpected, as the central dispute took place between the CSU and the Greens regarding the topic of migration.

A controversial point of discussion was climate protection. Contentious issues were especially the closure of German coal-fired power plants, the abolishment of cars with combustion engines as well as the introduction of a carbon price. Sounding talks are the fundament of subsequent coalition talks, in which parties are negotiating the coalition agreement. Recent developments underline, that climate policy will be a major pillar in the coalition agreement, which in turn will determine Germany's climate actions of the following legislative term.



Long-Term Planning and Flexibility of the Electricity System in the MENA Region

Regional workshop in Amman



During the workshop in Amman | © GIZ

by Mr. Philippe Röske, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

The Arab Union of Electricity (AUE) invited members from electricity utilities of the region for a workshop on long-term energy planning supported by the GIZ project "Political dialogue on low emission strategies in the MENA region (DIAPOL-CE)" with funding from the German Ministry of Environment, Nature Protection, Building and Nuclear Safety.

The workshop took place on the 28th and 29th of November in Amman with 30 participants from Egypt, Jordan, Morocco, Tunisia, Algeria, Palestine, Sudan, Oman, Saudi Arabia and Qatar who shared their experiences on this issue during the two-day workshop. The AUE is a group of Arab electrical companies with the purpose of strengthening ties between members to improve power manufacturing in the Arab World and is based in Amman.

Mr. Fawzi Kharbat, Secretary General of AUE, Mr. Abdel Fattah El-Daradka, Managing Director of NEPCO and Anita Richter, Project Leader GIZ welcomed the participants.

International experts from the consulting Group Fichtner shared know how on approaches to handle increasing shares of variable renewable energy through long-term planning of the electricity system with a particular perspective on flexibility. The consultants gave an overview on adjusting power-system planning to the changes in the power sector before country representatives from Jordan and Egypt shared their experiences with the audience. A session on scenario development, planning and forecasting incited lively discussions touching on topics as strategical decisions, political assumptions and perspectives of market developments for future energy systems. The second day was stamped by the input of the representative of the International Renewable Energy Agency (IRENA), Ms. Asami Miketa, who gave an overview on different modelling approaches and software tools.

For further information please contact Mr. Philippe Röske at: philippe.roeske@giz.de



Monitoring, Reporting and Verification System in Turkey

Presenting experiences at COP23



MRV side event at COP23 in Bonn 2017 |
© GIZ

*by Mr. Alexander Haack Deutsche Gesellschaft für
Internationale Zusammenarbeit (GIZ) GmbH*

The side event “MRV in Turkey: From Theory to Practice” was held on 14th November at the Turkey Pavilion as part of COP23 that took place in Bonn, Germany between 06 - 17 November 2017.

This event focused on the challenges and lessons learned during the implementation of the Project “Capacity development for the implementation of a monitoring, reporting and verification system (MRV) for greenhouse gas emissions in Turkey”, implemented by GIZ in collaboration with the Ministry of Environment and Urbanization of Republic of Turkey.

It was presented that the successful establishment of the MRV system in Turkey was due to strong cooperation with the private sector, efficient knowledge transfer between Germany and Turkey, and sustainable capacity building through a revolving fund for a dedicated training institution. The successful implementation in Turkey has sparked interest in other countries seeking for advice - two outreach events in Ukraine and Tunisia will hence support the knowledge transfer in the region. The session was concluded by a new study highlighting the macroeconomic and employment effects of market based mitigation mechanisms. The findings of this study laid down that although there were challenges for fossil sectors, there would still be an overall employment advantage when decarbonising energy intensive sectors.

Further information: www.carbon-turkey.org



German-Jordanian Center of Excellence on Solar Energy

A great day for Jordan and for German-Jordanian partnership

*by Ms. Eman Qaraeen, Deutsche Gesellschaft für
Internationale Zusammenarbeit (GIZ) GmbH*

With the opening of the German-Jordanian Center of Excellence in Solar Energy (CoE) in November 2017, Jordan follows-up on its vision for talent-driven prosperity and for an improved employment situation of its young people.



Opening of the CoE | © Mohammad Adi

Supported by GIZ the Jordanian partner National Employment and Training Company (NET) dedicated tremendous efforts within the last months to the establishment of the CoE in order to allow this event to happen.

With its new approach, the CoE in Mafraq is meant to create a new role model for training institutes all over Jordan. It will in this way offer tailor-made training and serve the real needs of the labour-market. The CoE is centered in the Industry Park in Mafraq Development Zone with upcoming 200 MW of projects in PV installation and close to refugee camps hosting many Syrian refugees. The CoE is thus also highly promising in creating the needed employment for both Jordanians and Syrian refugees providing training for both target groups.

Being proud of the achievements made together, the Jordanian partner NET and GIZ guided the visitors of the opening ceremony through the Center. Students of the CoE illustrated their learnings at several working stations. They used the available tools such as thermal shots which are needed to test solar panels. By using these modern instruments provided by Jordanian companies grouped within the King Hussein Bin Talal Development Area, one thing already became clear to the guests: the Center already achieved first milestones to bring its principle for more private sector involvement in training to life.

Watch the movie on the German Jordanian Center of Excellence in Renewable Energy in Jordan:
www.youtube.com/CoE



The Role of Renewable Energy and Energy Efficiency in Turkey

Powering the energy transition



Conference Powering the energy transition in Turkey 2017 | © GIZ

by Ms. Sanem Akin, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

GIZ Turkey provided substantial input through the BMUB Project Energy Efficiency in Public Buildings in Turkey to a two-day conference entitled “Powering the energy transition – The role of renewable energy and energy efficiency”, organized by the Embassy of the Federal Republic of Germany in Ankara and DAAD in collaboration with Middle East Technical University and Ankara University.

The two-day conference aimed at bringing a piece of the German energy transition to Turkey and discussing what can be transferred to Turkey beneficially, through cross-connecting the public, private and academic sectors of both countries. Additionally, one of the key aspects of the event was to foster future cooperation in research and development in the field of sustainable energy. The Ambassador of the Federal Republic of Germany, H.E. Martin Erdmann, also referred to this issue in his opening speech, in which he emphasized that Turkey and Germany should go hand-in hand to create solutions together.

Furthermore, the conference provided PhD-candidates and post-docs with the opportunity to present their research and innovation projects in the field of renewable energies and energy efficiency in the form of posters. Overall 10 submissions were made to the conference and three best contributions were presented with awards.

GIZ made a significant contribution to the event by arranging guest-speakers from German Federal Ministry for Economic Affairs and Energy (BMWi), Fraunhofer Institute for Buildings Physics and Agora Energiewende. Also, programme director of the project Alexander Haack was engaged in the conference

as a moderator in Energy Efficiency panel.

With around 200 participants, the conference was well-received by participants and the media and a follow-up event is also planned.

For further information please contact Mr. Alexander Haack at: alexander.haack@giz.de



Energy Efficiency in Public Buildings in Turkey

Developing a zero carbon emission model for public buildings

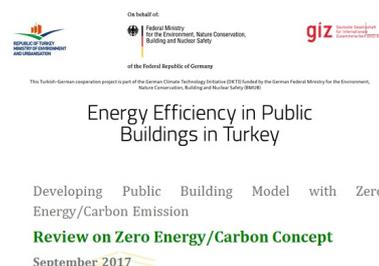
by Ms. Sanem Akin, *Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH*

GIZ prepared a first overview report on the context of “Developing a zero carbon emission model for public buildings” under the BMUB project “Energy Efficiency in Public Buildings”.

In line with the future plans of its partner, Ministry of Environment and Urbanization of the Republic of Turkey (MoEU), to prepare a guideline for nearly zero energy buildings (nZEB); the overview report aimed at providing a general overview on definitions of zero energy/carbon and related concepts and introducing how these concepts are assessed in Europe and other countries. Highlights and advantages/disadvantages of the Zero Energy Concept were also presented in the report, which revealed that in order to develop a successful model for Zero Energy/Carbon buildings for public sector, detailed analyses should be conducted. One conclusion was that for this model to be effective at the national level, necessary optimization and feasibility studies should be conducted with detailed simulations.

Therefore, the project plans to continue its work on the issue by conducting a feasibility analysis to assess the applicability of the nZEB concept in Turkey. Seminars and workshops are also envisaged to sharpen and develop the concept for the use of MoEU. For that purpose, MoEU staff will also participate in a two-day training on “Implementing the Energy Performance of Buildings Directive: Cost-Optimality, nZEB, Implementation Practice” which will be held in Berlin on 27-28 November 2017. Ultimately, the project aims to develop a model for Zero Energy Public Buildings in Turkey in collaboration with its partner Ministry.

For further information please contact Mr. Alexander Haack at: alexander.haack@giz.de



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The Climate Change Competence Center at COP23

by the 4C Team



Capacity Building Day, 16 November 2017
| © Equipe 4C

commissioned by the German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB) under the International Climate Initiative (IKI), helped set up the Climate Change Competence Center of Morocco and has supported the activities of '4C Maroc' since it acquired official institutional status in 2016.

A number of activities took place at COP 23:

On 13 November 2017, 4C Maroc contributed to the GIZ flagship event on the implementation of Nationally Determined

Contributions (NDCs) with the participation of Mr. Said Mouline, Director General of the Moroccan agency for energy efficiency.

On 14 November 2017, 4C Maroc organised a side event on the implementation of Morocco's NDCs. Mr. Gorißen, Director of the BMUB International Climate Initiative Division, announced that the 4C project would be extended. Prior to the event, the 4C project produced a film and a booklet, available in English and French, on Morocco's leadership on NDC implementation.

The 4C project's INCCETT 4CB network (International Networks of Climate Change Centres of Excellence and Think Tanks for Capacity Building) took part in the Capacity Building Day, hosting a session on building resilience with a view to implementation of the NDCs.

Finally, on the last day of COP23, there was a presentation on the Moroccan greenhouse gas inventory system, which the project has helped to develop, attended by the German and Costa Rican Environment Ministers.

Watch the movie on Morocco's leadership on NDC implementation:

www.4c.ma/fr/mediatheque

More details on 4C Maroc's activities can be found at: www.4c.ma



Promoting Energy Transition in Tunisia

by Ms. Marit Berchner, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

The Secretariat of the German-Tunisian Energy Partnership, implemented by GIZ, organised the Seventh German-Tunisian Energy Day on 29 November 2017 on the theme of 'Promoting energy transition - Instruments and technologies'.

The opening speeches were delivered by Mr. Khaled Kaddour, Tunisian Minister for Energy, Mines and Renewables, and Mr. Andreas Reinicke, Ambassador of the Federal Republic of Germany.

More than 180 people representing civil society and the public and private sectors attended the Energy Day, which has become a key event in Tunisia's energy calendar. The event comprised three panels: on policies to promote energy transition, the role of electricity networks in the integration of renewables and the economic potential of energy efficiency. The participants were as wide-ranging as the subjects: experts from institutions such as the German Federal



German-Tunisian Energy Partnership |
© GIZ

Network Agency (BNetzA) and the International Energy Agency (IEA) took the opportunity to talk to representatives of Tunisian and German institutions. The event was also an opportunity to discuss German and Tunisian energy policies to promote energy transition and marked a milestone in the German-Tunisian Energy Partnership.

The interest shown in this seventh edition of the event demonstrates the continued importance of the German-Tunisian Energy Day. The following day, the Partnership's working groups met to discuss common energy-related activities and prospects for future projects.

For further information, please contact Ms. Marit Berchner at: marit.berchner@giz.de



Events & Publications

Events

15 - 18 January 2018 EXHIBITION & CONFERENCE World Future Energy Summit & Exhibition in Abu Dhabi, United Arab Emirates
www.worldfutureenergysummit.com

30 - 31 January 2018 CONFERENCE Solar Finance & Investment Europe in London, UK
www.finance.solarenergyevents.com

06 - 08 March 2018 EXHIBITION Middle East Electricity in Dubai, United Arab Emirates
www.middleeastelectricity.com



Publications

IRENA [2017]: Electricity storage and renewables: Costs and markets to 2030

Rapid reductions in stationary battery storage development costs could lead to an immense growth in installed capacity worldwide by 2030. IRENA estimates development costs associated with stationary battery storage applications could plunge almost 70% by 2030, potentially helping to push installed global battery storage capacity.

Currently, pumped-hydro systems dominate the energy storage sector, accounting for 96% of the total installed electricity storage capacity globally. But economies of scale and technology breakthroughs are expected to support the accelerated development and adoption of alternative storage technologies, such as lithium-ion and flow batteries.

[More information & download](#)

IEA-RETD [2017]: Commercial Readiness Index (CRI) assessment – using the method as a tool in renewable energy policy design

The commercial maturity of renewable energy technologies (RET) may be assessed by using the Commercial Readiness Index (CRI) framework to identify appropriate policy approaches for stimulating RET deployment. The report explores the use of the CRI framework through case studies with the aim of illustrating the commercialisation journey of solar photovoltaics in Germany and offshore wind in the UK.

The report draws conclusions and provides recommendations on:

- Advantages and limitations of the CRI and its potential applicability to support policy makers
- Effective policies to support the commercialisation of RETs
- Opportunities to refine the CRI to address some of its limitations

[More information & download](#)

IEA [2017]: Market Report Series: Renewables 2017, Analysis and Forecasts to 2022

The renewable electricity market has broke another annual deployment record in 2016. The market's main driver last year was solar photovoltaics. As costs decline, wind and solar are becoming increasingly comparable to new-build fossil fuel alternatives.

China remains the dominant player, but India is increasingly moving to the centre stage. Government policies are introducing more competition through renewable auctions, further reducing costs.

[More information & download](#)



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