

# AGEP

ASEAN-German Energy Programme Newsletter

DECEMBER 2019 EDITION



Implemented by:

**giz** Deutsche Gesellschaft  
für internationale  
Zusammenarbeit (GIZ) GmbH



## Welcome Remarks



*Dear Readers,*

I am delighted to greet you as the new Principle Advisor for the second phase of ASEAN-German Energy Programme (AGEP). There have been a few numbers of activities that took place, an update on which I am happy to share with you in this newsletter.

First and the most prominent news of 2019 – start of AGEP Phase II in July, aiming to strengthen the strategic role of ASEAN Centre of Energy (ACE) as a regional competence centre of excellence for sustainable energy. The programme focuses on several key areas such as sustainable energy, data management, and organisational development of ACE. Read more on the programme overview on page 2.

Supporting the region's sustainable energy activities, series of advisory meetings were held in February and March 2019. The meetings were held to deep dive into the collected dataset from ASEAN Member States and identify the model parameters for the projection.

In October, our delegates had the opportunity to participate in Energy & Efficiency Week (REEW 2019) in Berlin, which was a great platform of international experience exchange, networking opportunity and knowledge sharing on the recent trends in the global energy sector.

Lastly, we have implemented several initiatives to support energy data management in the ASEAN region, including benchmarking visits to National Team for the Acceleration of Poverty Reduction (TNP2K) and United Nation's Pulse Lab in Indonesia, UN ESCAP in Thailand, and Energy Commission in Malaysia. With these initiatives we aim to help ACE create a one-stop service for the official energy database of the ASEAN Member States.

I hope you enjoy reading about the highlights of our cooperation on the following pages.

**Sergey Makarov**

Principal Advisor of AGEP Phase II

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# AGEP Phase II at a Glance

Dear Energy Enthusiasts,

AGEP Phase I has been officially concluded last June but now we are excited to greet you through AGEP Phase II. What do we focus on AGEP Phase II? Implemented by the ASEAN Centre for Energy (ACE) and the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH on behalf of the German Federal Ministry of Economic Cooperation and Development (BMZ), AGEP Phase II aims to strengthen the strategic role of ACE as a regional competence centre of excellence for sustainable energy.

There are a lot of fun activities we manage under AGEP Phase II, such as:

- Develop the 6<sup>th</sup> ASEAN Energy Outlook (AEO6)
- Develop RE Nodal Network Framework on R&D
- Develop Regional Workshop on EE Financing
- Develop ACE Internal Guideline and Competencies on Data Processing
- Develop External ASEAN Statistical Guideline and Competencies on Energy Pricing
- Support ACE in Organisational Development (Business Plan and Capacity Building).

Finally, let me introduce you to the team behind AGEP Phase II:

## ASEAN Centre for Energy



**Dr. Nuki Agya Utama**  
Executive Director



**Septia Buntara Supendi**  
Manager



**Dr. Tharinya Supasa**  
Energy Analyst



**Sandy Fajrian**  
Technical Officer



**Yudiandra Yuwono**  
Technical Officer



**Reinie Juliana Sigar**  
Admin & Finance Officer



**Agus Suprianto**  
General Officer

## The Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH



**Sergey Makarov**  
Principal Advisor



**Rizky Fauzianto**  
Team Leader



**Junianto M**  
Advisor



**Melati Wulandari**  
Advisor



**Debora Widyarini**  
Finance and  
Procurement Officer



**Ratna Dewi Khuriyatun**  
Administrative Professional



**Sodikin**  
Office Assistant



**Aminudin**  
Driver



**Elisa Wahyuni**  
Intern



**Riezki Setyana**  
Communications  
and PR Advisor

Best Regards,

**Septia Buntara Supendi**

Manager of ASEAN-German Energy Programme

# The Ultimate Guide to Renewable Energy in Cambodia



Dr. Nuki Agya Utama handed over Cambodia RE Assessment Outlook to Mr Victor Jona.

The ACE Executive Director, Dr. Nuki Agya Utama, handed the study of Cambodia Renewable Energy Assessment Outlook to Mr. Victor Jona, Director General of Energy, Ministry Mines and Energy of Cambodia at the sideline of the 37<sup>th</sup> ASEAN Ministers on Energy Meeting (AMEM) on 3 September 2019 in the Athenee Hotel Bangkok, Thailand. The study was conducted by AGEP - a jointly implemented programme by ACE and GIZ GmbH on behalf of BMZ, in cooperation with the Ministry of Mines and Energy Cambodia.

The study aims to address comprehensive medium and long-term energy supply and demand projection, as well as future energy mix of four specified scenarios, namely Business-as-Usual (BAU), Cambodia Targets, Advanced Effort, and Installed Solar Power Scenario. The BAU projection shows that Cambodia will face major challenges caused by the increase in energy demand, with TFEC will reach almost three times in 2040 comparing to the 2017 level.

The study recommends that there are rooms for policymakers to consider having higher ambitious RE actions on. In addition, it included the concrete recommendations that could further the modelling performed which can facilitate policymakers with a better vision on designing a proper energy framework and enhance the country's energy security in a sustainable manner. (TS&SF)



Meeting with Cambodian Ministry of Mines and Energy on RE Assessment Outlook.

# Crafting the 6<sup>th</sup> Edition of ASEAN Energy Outlook



The 6<sup>th</sup> AEO consultation meeting with Stockholm Environment Institute (SEI).

The 6<sup>th</sup> ASEAN Energy Outlook (AEO6) is a flagship publication of the ASEAN Centre for Energy (ACE) and one of the priority publication that acknowledges by the ASEAN Ministers on Energy Meeting (AMEM). The publication is expected to be launched at the 38<sup>th</sup> AMEM in September 2020 in Hanoi, Vietnam. The Outlook was developed by the ASEAN-German Energy Programme (AGEP) - a jointly implemented programme by ACE and Deutsche Gesellschaft für International Zusammenarbeit (GIZ) GmbH on behalf of the German Federal Ministry for Economic Cooperation and Development (BMZ), together with Policy Research and Analysis Department (PRA) of ACE, under the consultation of Stockholm Environment Institute (SEI), Boston.

As part of the Outlook preparation, AGEP organised series of Working Meeting with the ASEAN Member States (AMS) in February and March 2019. The Meetings held as an advisory session to deep dive on the collected dataset from AMS and identify

the regression and regressors for model projection. As a result, the first draft skeleton LEAP structure was built to follow the agreed scenarios, namely: Business-as-usual (BAU), ASEAN Country Target (ATS), APAEC Target (APS) and ASEAN SDG (SDG).

To finetune the model, AGEP organised a consultation meeting with SEI in ACE Headquarter in Jakarta, Indonesia. A kick-off meeting was conducted in June 2019, followed by consultation meeting in July and September 2019. From these meetings, the model structure was further modified and designed to better fit with all indicators under the four scenarios, including to consider a hybrid approach (Macroeconomic mix Technology-rich) to accommodate the specific energy efficiency policies, vehicle transition policies, and energy accessibility under SDG7. The final consultation meeting will be conducted on 18-22 November 2019 and a Working Meeting with AMS in January 2020. (TS)



The 6<sup>th</sup> AEO consultation meeting with Stockholm Environment Institute (SEI).



# Showcasing Global Energy Development

Co-organised by the ASEAN Centre for Energy (ACE) and DMG events, the ASEAN Energy Business Forum (AEBF) 2019 was held in Bangkok, Thailand from 2-5 September 2019 at the Athenee Hotel. It was organised jointly by ASEAN Minister of Energy Meeting (AMEM) and attended by energy ministers and/or senior officers from all ASEAN Member States. Alongside the government officials, AEBF was also attended by leaders from international organisations for the energy sector from the ASEAN countries and beyond. The event focused on sharing the latest energy investment opportunities and insights into energy sector in the ASEAN region with one goal of moving ASEAN to a lower-carbon future.



ACE and AGEP's booth at ASEAN Energy Business Forum (AEBF) 2019.

The AEBF aimed to showcase ASEAN Member States' (AMS) aspirations and developments which ultimately served as a platform to foster connection between stakeholders; providing opportunity for investment missions from open discussion to bilateral

development forum was hosted by IRENA followed by a jointly hosted session led by ASEAN-German Energy Programme together with UNEP and UNESCAP focusing on connecting energy sector in ASEAN with global issues from women to sustainable development. These sessions provided unique insights

for the diverse attendees to connect different perspectives. Consequently, these interactions will support the development of ASEAN energy sector through innovations, collaborations, and improved investments that assist the region's transition toward a clean energy future. (YY)



Indonesian Ministry of Energy and Mineral Resources visited ACE and AGEP's booth at AEBF 2019.

meetings for AMS' government, investors, and sectoral experts.

As an important part of the event, together with ACE, international organisations were given the opportunity to host several sessions on policy and regulatory perspective. A renewable energy



Malaysian Ministry of Energy, Science, Technology, Environment and Climate Change visited ACE and AGEP's booth at AEBF 2019.

# The 9<sup>th</sup> GIZ Renewable Energy & Efficiency Week

This year marks the ninth GIZ Renewable Energy & Efficiency Week (REEW), an annual expert workshop for partners of German development cooperation in the energy sector. It was organised by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH on behalf of the German Federal Ministry for Economic Cooperation and Development (BMZ) in Berlin, 7-11 October 2019, with almost 300 participants from over 36 countries. REEW does not only aim to support GIZ partners in efficiently

from Lao PDR, Ahmad Zulhilmi Harun from Malaysia, Win Myint from Myanmar, Andrea Jane Urquiola from The Philippines, Pongsak Prommakorn from Thailand, and Le Ba Viet Bach from Vietnam.

The first four days consist of workshop with different topics each day: Energy Systems and Climate Change; Policy and Regulation; Technology and Economics; Business Models, Financing and Private Sector. The first day was officially opened by Alexander Kauer

from BMZ, followed by some keynote speeches from GIZ, BMZ Special Representative for Energy in Africa & Former Minister of State, and the Executive Secretary of Renewable Energy Policy Network for the 21st Century (REN21). It is mentioned that based on REN21 Global Status Report, this has been a strong year for renewable energy with total global RE capacity rose



Discussion on the transition in the energy sector at REEW 2019.

promoting energy transformation processes towards sustainable energy systems and energy access, but also a great platform of international experience exchange, networking opportunity and knowledge sharing on the recent trends in the global energy sector.

This also marks the fourth ASEAN-German Energy Programme (AGEP) participation in the conference. The region was represented by delegates from eight ASEAN Member States (AMS): Pengiran Haji Jamra Weira Bin Pg Hj Petra from Brunei Darussalam, San Sereyvathna from Cambodia, Lounny Sivannavong

by 8% in 2018 and 181 GW of renewable power was(were?) added. Totalling USD 289 billion of global investment in renewable power and fuels in 2018, with 11 million people employed in renewable energy sector worldwide.

The ASEAN delegates conveyed their appreciation and satisfaction from participating in REEW 2019. It has been a pleasant and resourceful experience that can further benefits their work as well. Following the success of this event, AGEP is looking forward for future discussions and activities on RE and EE with AMS. (MW)



# Visiting ASEAN Countries Paving the Way to Model the 6<sup>th</sup> ASEAN Energy Outlook

To continue the development of the 6th ASEAN Energy Outlook (AEO6), a team of expert and staffs from the ASEAN Centre for Energy (ACE) and ASEAN-German Energy Programme (AGEP), a jointly implemented programme by AGEP and Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH on behalf of the German Federal Ministry for Economic Cooperation and Development (BMZ) has travelled across the ASEAN region to show and discuss the current progress of the model. The visit started in October 2019 in Myanmar and concluded in December 2019 in Malaysia. The audiences of the meetings are energy modellers, statisticians and relevant experts as the representative from the region.

This country visits focused on each country's model, which have been developed based on the inputs from the AEO6 1<sup>st</sup> Working Meeting on Data and 2<sup>nd</sup> Working Meeting on Model and Scenario. The meetings consist of presentation about model structure, data, assumption, and updated national target, followed by interactive discussion and sharing session. The meetings will ensure both AMS representatives and AEO6 team to gather the most updated data and insights from each country as the model input.



The 6<sup>th</sup> AEO Meeting with Lao PDR Ministry of Energy and Mines.

The AEO6 team received good feedbacks from the AMS representatives, highlighting on the consultative format which allows for the process transparency and clear documentation of data for the model development. After concluding all country visits, the AEO6 team will be translating and inserting the inputs into the model, through intensive coordination with each of AMS' focal points. The model is targeted to be finalised by the end of 2019 and will be presented in the AEO6 3<sup>rd</sup> Working Meeting in January 2020. The final report is targeted to be presented and launched at the 38<sup>th</sup> AMEM in Vietnam, September 2020. (SF)



The 6<sup>th</sup> AEO Meeting with The Philippines's Department of Energy.

# ASEAN Data Benchmarking Visits

As progress toward establishing a reliable regional knowledge hub, the ASEAN Centre for Energy (ACE) is currently developing ASEAN Energy Database System (AEDS) as the one-stop service for the official energy database of the ASEAN Member States (AMS). Acknowledging the various needs of the AMS, AEDS is therefore continuously being enhanced.

To further improve the AEDS, ACE is conducting benchmarking visits to several institutions in the region to exchange ideas and brainstorm on good data platforms. The visits discuss several topics, such as data and resources management, data utilisation, dissemination, development of analysis, and potential collaboration. Up to December 2019, the team has already met National Team for the Acceleration of Poverty Reduction (TNP2K) and United Nation's Pulse Lab in Indonesia, UN ESCAP in Thailand, and Energy Commission in Malaysia. The findings from each visit will be used as references to improve the AEDS. The activity is supported by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH through the ASEAN-German Energy Programme (AGEP) Phase II. (JM)



Meeting with UN Pulse Lab in Jakarta, Asia Pacific Energy Portal in Bangkok, and Energy Commission in Putera Jaya.