

# AGEP

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## Editorial Note

**Dear Readers,**

We hope everyone had a lovely holiday season!

The New Year is a time for looking back and for looking forward. The ASEAN-German Energy Programme (AGEP) Phase II also has a resolution we intend to keep: we promise to continue to collect stories related to ASEAN-German energy cooperation and to keep you, our dear readers, informed about energy transition movements in the region.

The last quarter of 2021 was very fascinating to us and everyone involved in ASEAN sustainable energy community. Mandated through our roles in supporting ASEAN Centre for Energy (ACE) as the regional centre of excellence for sustainable energy, we jointly implemented several successful activities which included the development of the 7<sup>th</sup> ASEAN Energy Outlook (AEO7), Country Profiles 2022, and sustainable business training for ACE's leaders and team members.

Starting the development of the AEO7, a Kick-off Meeting was held virtually on 1 September 2021, which was attended by data experts and focal points from ASEAN Member States (AMS). The main objective of the event was to consult with AMS on scenarios development, and data collection and processing.

On the development of Country Profiles 2022, we have gathered new items on the energy statistics and showcase the energy-related progress in achieving the Sustainable Development Goals in the ASEAN region. We aim to publish the new Country Profiles via ACE social media platforms next month.

Finally, AGEP team was also bidding a farewell to its Team Leader who ended his tenure with GIZ in November. We hope you enjoy reading our newsletter and invite you to contribute your articles on sustainable energy for our next edition of the newsletter to [agep.comm@aseanenergy.org](mailto:agep.comm@aseanenergy.org).

Thank you and stay safe,  
AGEP Phase II Editorial Team

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# A Peek into the 7<sup>th</sup> ASEAN Energy Outlook Development



The ASEAN-German Energy Programme (AGEP) once again supports the development of the 7<sup>th</sup> ASEAN Energy Outlook (AEO7), a flagship publication of the ASEAN Member States through the ASEAN Centre for Energy (ACE). This document allows ACE to become a regional knowledge hub, think tank, and energy cooperation catalyst. Expected to be launched in November 2022 at the 40<sup>th</sup> annual ASEAN Ministers on Energy Meeting (AMEM) hosted by Cambodia, AEO7 explores the demand and future development of the region's energy landscape considering the key trends and policy direction.

scenario development, modelling works, and the general assumptions considering the insights from the previous Kick-off/ Inception Meeting and the concluded Capacity Building on Low Emissions Analysis Platform (LEAP) under Ir. Cecilya Laksmiwati Malik from 24 August to 25 October 2021. The LEAP training, supported by AGEP, was participated by around 15 AEO7 team members from both ACE and GIZ.



The AEO7 team is currently working on follow-ups on available data from AMS, exploration of alternative data sources, reshaping and strengthening the modeling scenarios, and updating the AEO model with the latest available data and assumptions. The team is joined by Stockholm Environment Institute (SEI) as their main consultant. SEI developed Low Emissions Analysis Platform (LEAP), the tool used in the AEO6 and now in the AEO7.

The currently developed outlook aims at establishing a stronger role of ACE and AMS Working Groups in terms of data processing and modeling approaches. Some of the modeling upgrades from the previous edition include the bottom-up demand projection for the commercial and industry sector and the least-cost optimisation of the power sector.

The team looks forward to Country Visits which is expected to commence in mid February this year. Due to COVID-19 restrictions, the discussions are tentatively set as hybrid format in contrary to face-to-face country visits arrangement in the previous AEOs. The purpose of the event is to bring the first batch of results from AEO7 modeling works, finalize data gaps, and modeling approach and assumptions. Following that, the 2nd Workshop is set at the end of March 2022 which focuses mainly on the discussion of the modelling results with AMS focal points.

To start the development of the AEO7, a Kick-off Meeting was held virtually on 1 September 2021, which was attended by data experts and focal points from ASEAN Member States (AMS). The main objective of the event is to consult with AMS on scenarios development, and data collection and processing which would serve as a ground for future collaboration between ACE and the AMS for the next part of the project which are the Workshops and Country Visits.

Another exciting thing to look out for in this current AEO7 is the training for the AMS by the AEO7 team, around March or April. In this training, member states will be given lectures and exercises on how their data is being processed and used in the AEO7 model. The objective of the training is to strengthen the understanding of the AMS on the methodologies of the AEO development to improve the alignment of the national policies to the regional targets. (MW/AD/JM)

The 1<sup>st</sup> Workshop for the AEO7 took place on 23-25 November 2021. The event aims to present updates on

# The 39<sup>th</sup> ASEAN Ministers on Energy Meeting (AMEM) and The 2021 ASEAN Energy Business Forum (AEBF)

The 39<sup>th</sup> ASEAN Ministers on Energy Meeting (AMEM) and the 2021 ASEAN Energy Business Forum (AEBF) were successfully organised virtually on 14 – 16 September 2021. The three-day event did not only enable ASEAN policymakers to showcase the national energy framework aspiration but also presented comprehensive perspective from policy makers, ASEAN energy leaders and key industry player on various energy topics. The 2021 AEBF featured enhanced high-level strategic conference with different set themes in each day: The ASEAN Energy Sustainability Vision, Accelerating ASEAN's Energy Transition, and Net Zero Solutions & Country Investment Briefings.

The event was commenced with welcome remarks by Brunei Darussalam's Ministry of Energy, Hon. Dato Setia Dr Awang Haji Mat Suny bin Haji Md Hussein, and ACE's Executive Director, Dr. Nuki Agya Utama. They mentioned the importance of clean energy accessibility and technology advancement to achieve ASEAN two major targets by 2025 which are to integrate 23% share of renewable energy and reduce 32% of energy intensity as stated in the ASEAN Plan of Action for Energy Cooperation (APAEC) for 2021-2025.

On the second day, AGEP took part in one of the AEBF panel discussions entitled "\$3 Trillion Potential Investment for ASEAN's Sustainable Energy Future". The discussions were about the progress of renewable energy project, particularly in the second year of pandemic situation and how to attract and foster the investment in renewable energy. The decreasing demand of energy was considered as one of the contributing factors of the delay and slowing-down pace of some projects in ASEAN Member States (AMS).



Nevertheless, there are still opportunities for the growth of investment in the future looking at the abundance of potential resource and geographical advantages of the country. Moreover, the support from government and policy has significant role in recovering the energy market and demand. As one of the panelists, Sergey Makarov, AGEP's Principal Advisor and the GIZ ASEAN Lead Advisor, underlined that the strong long-term commitments combined with clear, understandable, and equal policy for all participants will enable the business to process and bypass the procedures in the country.

The event was closed with series of presentation on energy policy initiatives and investment by AMS where each country showcased their national energy framework aspirations along with their specific approach in expanding sustainable energy access and fostering international partnership. The 40<sup>th</sup> AMEM also marked the adoption of Joint Declaration on Energy Security and Energy Transition initiated by Brunei Darussalam. This reflects the strong commitment and determination of ASEAN Energy Ministers in implementing the ASEAN Economic Community (AEC) Blueprint 2025 and strengthening cross-sectoral coordination within the AEC. (MW)

# The 7<sup>th</sup> ASEAN Energy Outlook (AEO7): Kick-off Meeting and Workshop I

The ASEAN-German Energy Programme (AGEP), a jointly implemented programme by ASEAN Centre for Energy (ACE) and Deutsche Gesellschaft für International Zusammenarbeit (GIZ) GmbH on behalf of the German Federal Ministry for Economic Cooperation and Development (BMZ), successfully organised its first event on the 7th ASEAN Energy Outlook (AEO7) on 1 September 2021. The development of AEO7 was officially kick-started with a meeting participated by around 60 people from 8 ASEAN Member States (AMS), Dialogue Partners (DPs), and other International Organisations (IOs).

The meeting was opened by remarks from ACE's Executive Director, Dr. Nuki Agya Utama, and Chair of Regional Energy Policy and Planning Sub-Sector Network (REPP-SSN), represented by Ms. Latha Ganesh from Singapore's Energy Market Authority (EMA). It also officiated the AEO7 Working Group which consists of policy maker/energy modeller and statistician as focal points from AMS to coordinate on data and scenarios development. Dr. Zulfikar Yurnaidi, the AEO7 lead modeler from ACE, presented the updates and plans of AEO7 development, including status of data collection, modelling progress, milestones and overall timeline. The meeting also invited several key experts to share about their experiences in working on other energy outlooks, such as Asia-Pacific Economic Cooperation (APEC)'s Energy Demand and Supply Outlook, and International Renewable Energy Agency (IRENA)'s World Energy Transitions Outlook.

The AEO7 kick-off meeting was then followed by the first workshop on data and scenario, which was also AGEP's first hybrid event after almost 2 years of pandemic. On 23-25 November 2021, the workshop was participated by 13 ACE and AGEP-GIZ team members sitting together from a meeting room in Bogor, Indonesia, while more than 60 other participants from all 10 AMS and IOs were joining virtually.

The first day's format was a plenary session where Dr. Andy Tirta explained the roles of AEO in regional



energy cooperation. Melati Wulandari presented AGEP's support throughout the development of the last four AEOs, while Dr. Zulfikar updated the AEO7 work progress since the kick-off meeting. Furthermore, several key experts also shared their best practices on energy modelling work, such as Dr. Tharinya Supasa from Clean, Affordable and Secure Energy for Southeast Asia (CASE) project with their Long-Term Energy Scenario (LTES) and Co-benefits concept, Yuji MIZUNO from The Institute Of Energy Economics Japan (IEEJ) with their Net Zero Modeling, and Toru Muta from International Energy Agency (IEA) with their World Energy Outlook.

The second and third day were implemented though a more intimate format where the AEO7 team had one hour to consult with each country's focal points regarding their overall data, socioeconomics, energy-related policies, demand and supply components. The entire second day was fully scheduled for Brunei Darussalam, Cambodia, Lao PDR, Indonesia, Malaysia, and Myanmar, while the third day was for Philippines, Singapore, Thailand and Vietnam. At the end of the third day, all AMS were regrouped for a presentation on the country consultation's insights and way forward.

The kick-off meeting and first workshop marked the important steps to continue the work of the AEO7 development as the team is currently preparing for its second workshop which is planned to be held at the end of March 2022. Great amount of sincere gratitude was conveyed to all participants for their continuous cooperation and contribution to the development of this outlook. The AEO7 is also targeted to be launched at the 40<sup>th</sup> ASEAN Ministers on Energy Meeting (AMEM), hosted by Cambodia on September 2022. (MW)

# A Sneak Peek to ASEAN Country Profiles 2022

After successfully launching the ASEAN Country Profiles in 2021, AGEP Phase II is committed to continuing the development of its 2022 edition, which will feature new items on the energy statistics and showcase the energy-related progress in achieving the Sustainable Development Goals in the ASEAN region.

Based on the 2020 data, the ASEAN region has jointly reached a 95% electrification ratio with about 33.5%, and still growing, renewable energies mix in its power generation. The detailed statistics of each ASEAN Member States (AMS) will be presented in the first section to showcase countries' energy supply versus the installed power generation capacity by type of renewable energy resources/technology.

The second and the third sections will detail the progress tracking, challenges, and opportunities for each of the energy development in terms of renewable energy, energy efficiency measures, electrification, and clean cooking. The information is based on

Regional Energy Trends Report 2020: Tracking SDG 7 in the ASEAN Region, a joint publication prepared by the United Nations Economic and Social Commission for Asia and the Pacific (ESCAP) and ASEAN Centre for Energy (ACE).

Meanwhile the member states are progressing to tackle its challenges, there are still some opportunities for advancing or accelerating the developments, such as awareness-raising, financial support, framework institutionalisation, data collection, incentives versus disincentives, etc. Furthermore, the diverse conditions of economic, geographical and social aspects will certainly influence the AMS pathways to achieve sustainable energy. Through the third edition of the ASEAN Country Profile, we also add specific actions in several sectors such as power sector, transportation, and. Hence, this is expected to provide more information to enhance public awareness on the SDG 7 and the ASEAN Plan of Action for Energy Cooperation (APAEC) Phase II. (JM/DK)



# Establishing Sustainable Business Model



The ASEAN Centre of Energy (ACE) envisions its identity as a catalyst for the economic growth and integration of the ASEAN region by initiating and facilitating multilateral collaborations and collective activities on energy. Having a strong founding vision, The ASEAN Centre of Energy (ACE) has been empowered by the organisational development support from the ASEAN-German Energy Programme (AGEP) phase II, a collaborative project implemented by the ACE and the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH on behalf of the German Federal Ministry of Economic Cooperation and Development (BMZ).

The focus area of organisational development assisted by AGEP is to develop business plan with sustainable financing mechanism. Since early 2021, ACE and consultant firm work together in developing strategic options for

viable sustainable financing scheme/concept based on the data analysis and benchmark with other international organisations. Series of working meeting and internal workshop are required to exchange perspective and visions for the future with ACE management.

One of the milestones of this development process is the implementation of the first hybrid workshop that was organised by AGEP on 17 November 2021. 16 participants were attending on site with strict health protocol applied and the rest were joining remotely. The workshop was a great platform to conduct in-depth discussion on recommendation for revenue streams and ACE's financial model and organisational key performance indicator. Later the recommendation of business plan strategy will be presented to the ACE Advisory Panel and Governing Council in upcoming meeting in January 2022. (HM/DK)

# Auf Wiedersehen to AGEP's Former Team Leader

Good bye  
and  
Good luck!



On Friday, 26 November 2021, the ASEAN-German Energy Programme (AGEP) team, a jointly implemented program between ASEAN Centre for Energy (ACE) and Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH on behalf of the German Federal Ministry for Economic Cooperation and Development (BMZ), gathered with members from the other GIZ projects and ACE to bid farewell to Mr. Rizky Fauzianto, Team Leader of AGEP GIZ and wish him all the best in his future endeavours. After almost 8 years working for GIZ, Mr. Rizky will move to Rocky

worked with ACE to develop multiple studies on various topics such as The 5<sup>th</sup> and 6<sup>th</sup> ASEAN Energy Outlook as ASEAN flagship studies, Report on ASEAN RE Grid Integration Review, Study on Smart Grid Overview in ASEAN, and many others. Within internal GIZ, he took role as Co-Speaker for GIZ internal sector network, TUEWAS (Transport, Environment, Energy and Water in Asia) Grid-Connected Subgroup, and was invited to various international events as speaker/moderator by other international organisations (IRENA, ACE, Kyushu University, etc). Although the team will miss working

with him, but we are happy for Mr. Rizky and believes that it is not a goodbye.



"I would like to say thank you to GIZ, my previous employer and professional home for the past 8 years.

Mountain Institute (RMI), a US-based international organisation, and work on energy transition in the ASEAN region as Indonesia Country Manager and Senior Energy Transition Coordinator for Southeast Asia. Mr. Rizky started in GIZ as an International Intern on 2014 for GIZ bilateral project – Promotion of Least-Cost Renewables in Indonesia (L-CORE Indo), advisor for ASEAN Renewable Energy Support Programme (ASEAN-RESP) in 2015, and then he got promoted as Team Leader on the end of GIZ regional project, AGEP Phase I, in 2018. On his last position in AGEP Phase II, he was responsible mainly to lead the 3 million EUR project with a total of eight staffs, advise high-level stakeholders to achieve ASEAN energy target and supervise seven activities on energy topic in the region.

During his time with AGEP, Mr. Rizky always provided his positive and can-do attitude to his work and the team he led. He also gave extra-miles when he co-

During these years, I have enjoyed my journeys from an International Intern to a Team Leader, had great mentors, supervisors and have also been a mentor and a supervisor to great team members in AGEP. At the same time, I have been given valuable feedback over the years by leaders, peers, teammates, especially when moving from peer to leader. Hence, as I depart to my new adventure, I would like to say my highest appreciation to GIZ Indonesia, ASEAN & Timor-Leste, especially ASEAN-German Energy Programme (AGEP) team, our key partner ASEAN Centre for Energy and various stakeholders and consultants who helped me during my time in GIZ. GIZ through AGEP is one of the important actors on sustainable energy in ASEAN region with its long-standing fruitful cooperation with ACE and ASEAN Member States. Thus, I look forward to connecting with AGEP and ACE again in the future, especially because of the world of International development and energy is small." said Mr. Rizky. (RF)

## The Internship Experience

### Scholastica Gabriella Deianiera | ASEAN-German Energy Programme (AGEP) Phase II

The internship programme in ASEAN-German Energy Programme (AGEP) shows one of many ways on how youth can be involved in supporting the sustainable development especially in the energy transition. Fortunately, I was able to actualise my personal goals in getting involved in sustainable development and provided my contribution during my internship from April to August 2021 for AGEP Phase II, a jointly implemented programme by ASEAN Centre for Energy (ACE) and Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH on behalf of the German Federal Ministry for Economic Cooperation and Development (BMZ). It was an amazing experience to be working in an international organisation with an outstanding and professional team amidst COVID-19 in assisting the improvement of regional coordination for the promotion of renewable energy (RE) and energy efficiency (EE) towards sustainable energy for all ASEAN Member States.

During my internship in AGEP, I was able to enhance my analytical and research skill by supporting AGEP post-event evaluation surveys from participants' feedback and initiating desk research for impact assessment, as well as ASEAN Member States Country Profile 2022 infographic that include energy statistics and RE and EE development in each AMS. I also assisted the communication activities for AGEP phase II by co-writing articles for AGEP activities, preparing storyboard for AGEP events video and supporting the preparation of AGEP online events. It helped me realise the importance of disseminating projects' events and publication which hopefully also help promote and engage more people towards sustainable energy.

As a development project, AGEP has broadened my view regarding the importance of implementing gender responsiveness approach in the project to make sure everyone gets the same opportunity and benefit.

Through managing gender database, I assisted in monitoring the gender equality in AGEP events by analysing the gender ratio in training, workshop, talk show, etc. The gender database also helps us identify key stakeholders

from various background that had been attending our events. Furthermore, I also gained knowledge about the gender sensitivity language to avoid gender-biased and stereotypes especially in formal events, policy and even in our daily life.

As an urban and regional planning graduate, I was amazed by the efforts of each ASEAN Member States (AMS) to achieve ASEAN Plan of Action for Energy Cooperation (APAEC) 2016-2025 target of 23% of renewable energy (RE) shares in total primary energy supply (TPES) by 2025 and 30 percent reduction in energy intensity by 2025 based on 2005 level. Each of AMS develop their own strategies by adopting their effort to enhance RE and EE through policies, not only to achieve their mutual targets but also to make sure the financial sustainability of the projects. Partnership collaboration in AGEP is proving my point that we must involve all stakeholders from various background such as government, private sectors, NGOs and financial institutions in order to reduce the impact of climate change. I believe this valuable internship experience in AGEP marks as a milestone to achieve my personal goals and future careers in pursuing sustainable development and combating climate change. (SGD)



*We always look forward to your news and articles on RE & EE. Let's get connected with RE and EE community in ASEAN and beyond!*

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