

# AGEP

ASEAN-German Energy Programme Newsletter

MAY 2021 EDITION

## Editorial Note

### Dear Readers,

We hope our quarterly newsletter finds you well and in an excellent spirit!

There have been a few numbers of activities took place, an update of which we are delighted to share with you through this newsletter. Earlier in March, AGEP Phase II successfully organised a capacity development assistance programme for energy-data and collection and process, which was attended by thirteen members of ACE. Later in the same month, the success was immediately followed by another lively online discussion called GIZ Tea-Time Talk. AGEP team members, Melati Wulandari and Sandy Fajrian had the opportunities to share the results of ACE's newly launched publication, the 6<sup>th</sup> ASEAN Energy Outlook (AEO6) with the colleagues from GIZ Energy Programme Indonesia.

Furthermore, AGEP Phase II also conducted two virtual trainings on building an agile, solid and high-performing team, and on optimising ACE's management team. The trainings were attended by ACE team members and aiming at improving ACE's internal management practices as well as the efficiencies at work.

We are also delighted to welcome our new contributor, Jan Willem Zwarteveen from Siemens Gamesa, who shared his first piece of article in AGEP newsletter. He expressed a comprehensive and insightful view about how economic factors are now major drivers for the emerging market in the wind adoption. Finally, we would like to warmly congratulate Yheni Mulyaningsih who has recently completed her 6-month internship programme with the team. We wish Yheni Mulyaningsih the best for her future journey.

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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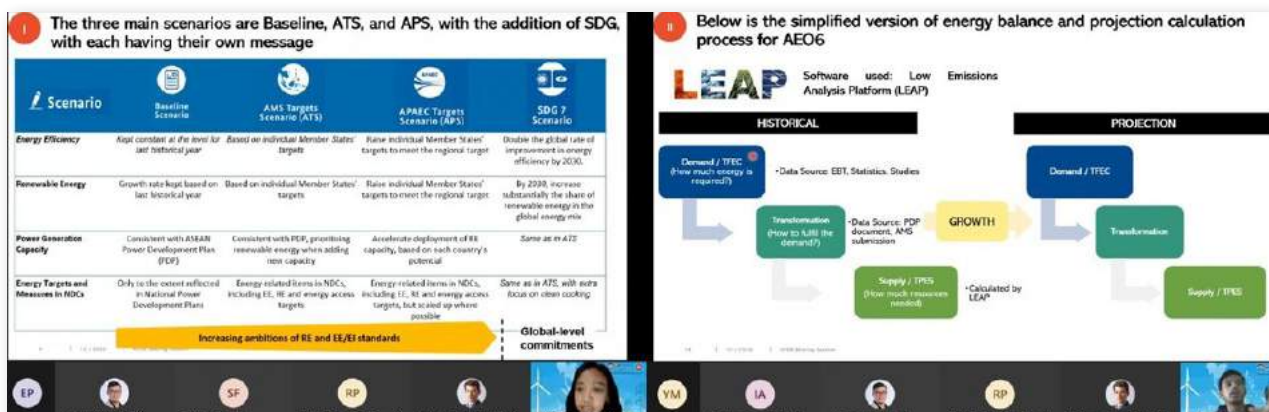
# Leveraging the 6<sup>th</sup> ASEAN Energy Outlook for Indonesia's Energy Sector

On 9 March 2021, the ASEAN-German Energy Programme (AGEP) Phase II conducted its second Tea-Time Talk with GIZ Indonesia Energy Programme virtually on the 6<sup>th</sup> ASEAN Energy Outlook (AEO6). AEO6 was launched at the 38<sup>th</sup> ASEAN Ministers on Energy Meeting (AMEM) in November 2020 and is currently being disseminated under various media platforms throughout the region. The subject matter was delivered to about 30 participants by GIZ advisor, Melati Wulandari, and ASEAN Centre for Energy (ACE) technical officer, Sandy Fajrian, who also play an active role as one of the members of the AEO6 modeling team. They explained the methodologies and results of the publication, how the outlook presents its unique regional perspective, and how apparent it is to distinguish from other existing outlooks. The AEO6 team worked very closely with ASEAN Member States (AMS) government officials and disclosed all the development processes. It started from prioritising the official national data to discussing all assumptions and modelling approach used by each AMS. Sandy also emphasised the strong messages across different sectors, such as transportation, industry, power, residential and commercial, to reduce greenhouse gas emissions and achieve the ambitious target of 23% renewable energy share in the ASEAN energy mix by 2025.

After the presentation, a GIZ advisor from Strategic Exploration of Economic Mitigation Potential through Renewables (ExploRE), Dody Setiawan, highlighted

how the AEO6 is being translated by the Indonesian government officials to the national policies level. Sandy mentioned that all the related national policies have been used in the modeling process and the AEO6 team have shared these results with the energy ministry's representatives in a separate dedicated session where they conveyed their intention to use this modeling for their own energy planning purpose. At the end of the session, AGEP Phase II's principal advisor, Sergey Makarov, commented on the obvious result of the fossil fuel continuous domination until 2040, and how moving forward this regional outlook can change its tone to be more optimistic in bringing these results to the public eye.

While the AEO6 will be promoted until the third quarter of this year, the 7<sup>th</sup> ASEAN Energy Outlook (AEO7) is currently under its planning preparation process and on schedule to be launched next year at AMEM 2022. AGEP is looking forward to receiving the supports from the GIZ Energy Programme Indonesia in adding more perspective and values to one of the flagship publications of ACE. As this tea-time talk has become one of the occasional chances to gather GIZ advisors from different energy programmes, it is a very fruitful platform to exchange and update each other on current activities and potential collaboration, which participants suggested that the event can be held more often. [MW](#)



Note: Tea-Time Talk is a regular sharing session organised among different energy programmes of the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH to exchange knowledge and information.

# Delivering the ASEAN Energy Database System (AEDS): Capacity Development Assistance Programme for Energy-data Collection and Processing

Starting in May 2020, the ASEAN Energy Database System (AEDS) improvement is currently approaching its final stages. One of the capacity development assistance programs for ASEAN Centre for Energy (ACE) staff is on developing internal guidelines and competencies on data processing, divided into technical and functional modules. The technical module is used for back-end operational and maintenance system such as database infrastructure, files and scripts repositories, and user management. The functional module will be used to operate the AEDS platform from energy data template customisation, data input/upload, data processing, localised visualisation, and extraction. The training concept was developed by a combined knowledge transfer and practical simulation, which is followed by a post evaluation.

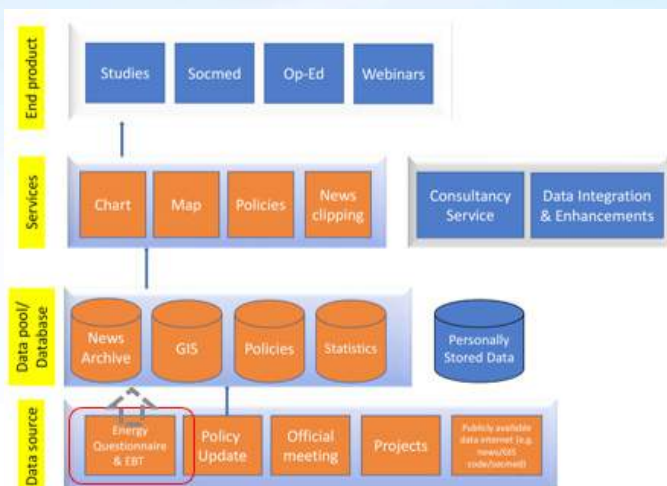
To cover the different roles of the ACE staffs, the training is categorised further for more targeted segments of participants, namely: Information and Communications Technology (ICT), Data/Statistics, and the Regular user, which consists of other ACE staff members excluding ICT and Data/Statistics officers. The training for the ICT unit was held on 5 March 2021 and attended by 12 participants. Later on 12 March 2021,

another training was held for Data/Statistics officers for half-day in the morning and followed by last training for the Regular user in the afternoon. While the module for Data/Statistics officers was more technical on data management, the Regular user module was more on a general understanding of the AEDS dashboard, which displays data visualisation. The training was participated by 10 participants and 18 participants, respectively. After each training was conducted, the participants' understandings were also evaluated using the 4-scale grading multiple-choice questions.

The capacity development for energy data collection and processing is part of AGEP Phase II activities under Output B, "Improved collection and digital processing of socio-economic and energy-specific data in the ASEAN Member States (AMS)." Aside from its key focus on strengthening ACE in its role as a regional centre of excellence for sustainable energy, GIZ is also preparing a capacity development assistance programme for the AMS through statistical guidelines and energy data competencies. The capacity development activities are expected to streamline the need for efficient collaboration on energy data collection and processing.

JM

## BUILDING DATABASE FOUNDATION



ASEAN data architecture in  
**Energy Balance Table**  
format

Procedure/Guidelines and  
Training/Dissemination  
for EBT data **operational**  
and **maintenance**





## Building an Agile, Solid & High-Performance Team

An organisation's capability to build agile, solid, and high-performing teams is essential to take advantage of arising opportunities, address challenges, and improve existing internal processes. The ASEAN Centre for Energy (ACE) as a regional energy body representing the interest of 10 ASEAN Member States (AMS) in the energy sector, has recognised the significant impacts of COVID-19 on the business and human resources process. Despite its new way of working, the ACE management team must continuously drive its members to perform three critical ACE roles as catalyst, think tank, and knowledge hub.

To maintain ACE's productivity to support the Member States, the ASEAN-German Energy Programme (AGEP) phase II, a jointly implemented project 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), supported the institution to participate in series of leadership and managerial training programme from March to May 2021.

One of the training is building an Agile, Solid, and High Performing team conducted on 25-26 March 2021. The training is aimed at understanding the personality and define actions to progress cohesive team members. The training provided theory and practical exercise on creating a high-performing team by enabling trust and building complementary strength and characteristics. This training prepared ACE managers in building strong collaboration between the internal team and even cross-function departments.

Mr. Septia Buntara Supendi, one of ACE managers who participated in the training, shared his experience and highlighted that the training motivated him to share more positivity and provide insight on how to shape people's tendency to behave, contribute, and productively interrelate with others. [HM/SB](#)

“The positive attitude is a foundation to maximise our potential and build trust in a team. It will not be there unless all the team members respect each other.”

# Optimising ACE's Project Management



Understanding the importance of providing capacity development assistance for its key partner, GIZ through the ASEAN-German Energy Programme (AGEP) Phase II; a jointly implemented programme by the ASEAN Centre for Energy (ACE) and the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH on behalf of the German Federal Ministry for Economic Cooperation and Development (BMZ) is mandated to provide series of leadership and managerial training for ACE personnel.

The first training on Project Management (PM) was organised on 8-10 March 2021 to assist ACE in overseeing its projects from its early phase to the end by using holistic approach. ACE personnel are expected to be able to understand the likelihood of project execution success through the full implementation cycle of project management by achieving OTOBOS (on time, on budget, on scope). The PM Training also introduced several essential

tools to plan the resource capability and analyse the impact of implementing projects and delivering services. This training is aimed at preparing ACE staffs' ability to explore the partnership & opportunity with potential partners. As a post-evaluation result, more than 50% of the trainees has improved their knowledge on PM Fundamental.

HM/YM

“The training was really practical and interactive even although conducted virtually. I believe it surely benefits ACE personnel in terms of our professional performance. I personally expect it can create positive impacts in the progress of ACE business development, because not only it can improve our internal management practices and quality of works but also to enhance our approach in engagement with ACE partners”, said [Dynta Trishana Munardy](#), Business Development Officer of ACE.

# Improving ACE's Data Modelling Capability



While the ASEAN Energy Database System (AEDS) is being finalised, AGEP team members have started the preparation of capacity development activities for the external audience, targeting the energy statisticians officials of the ASEAN Member States (AMS). The aim of the activities is to prepare ACE as a trainer for energy modelling capability, so that ACE could share the knowledge with the AMS effectively.

In achieving that, in November 2020, AGEP announced the request for proposals titled “Mentoring ACE on Advance Modelling to Improve ASEAN Energy Data Capability”. The scope of the work includes (i) assessment to understand the gap of the AMS in terms of data collection and processing of energy-related data; (ii) develop training syllabus and draft external guideline on data collection and digital processing; and (iii) mentor ACE team to become Trainers equipped with the skills/knowledge needed.

After passing a set of selection process, in March 2021, a consulting service provider was selected to deliver the work. To officially start the activity, a kick-off meeting was organised in April 2021, discussing the current data gap, methodologies, detailed activities, steering structure, communications, and administrations of the project. Estimated to be completed in the 1<sup>st</sup> quarter of 2022, the mentoring project is expected to foster efficient collaboration between ACE and AMS in terms of energy data collection and processing (include the modelling), so that the region could further analyse the ASEAN energy landscape.

The capacity development for energy data collection and processing is part of AGEP activities under Output B supporting the main objective of the AGEP Phase II, which is to strengthen ACE in its role as a regional centre of excellence for sustainable energy. AGEP Phase II is a jointly implemented programme by the ACE and Deutsche Gesellschaft für International Zusammenarbeit (GIZ) GmbH on behalf of the German Federal Ministry for Economic Cooperation and Development (BMZ). [JM](#)

# The Economic Importance of Energy Diversification for Emerging Markets

by: Jan Willem Zwarteveen, Managing Director  
Siemens Gamesa Renewable Energy Philippine



Photo credit: Siemens Gamesa

A recently published meta-analysis identified 259 factors influencing wind energy diffusion (<https://doi.org/10.1016/j.jclepro.2020.125636>). Environmental reasons played an important role in wind adoption in advanced economies. Economic factors were, however, found to be the major drivers for emerging markets. With lowering levelised costs of electricity, projected to reach USD 0.093/kWh in 2025 for the ASEAN region (<https://agep.aseanenergy.org/levelised-costs-of-electricity-for-renewable-energy-technologies-in-asean-member-states-ii/>), wind energy currently competes with most traditional energy sources. Extrapolating the trend, soon it might not only compete but form simply one of the cheapest forms of energy.

Wind energy not only results in cost savings, but avoids the import of coal or oil – the main source of energy for many ASEAN countries. Reducing import frees up money to invest in the local economy which creates new local jobs. As stated in the 6<sup>th</sup> ASEAN Energy Outlook (AEO6), the increased installation of wind power in the APAEC Target Scenario would add about 61,000 jobs in 2025 and about 83,000 jobs in 2040 to the region. A stable long-term plan would additionally enable creating a Renewable Energy (RE) industry, where technology and knowledge can be localised. The challenge for the governments is to manage the localization of RE industry, including secondary and tertiary

effects to create the millions of jobs needed as part of the post-COVID recovery.

Taking the Philippines as an example, currently, it imports roughly 2-3 billion USD of coal per annum. Even in the clean energy scenario of the Department of Energy, the coal import is expected to double over the next decades. The reliance on fossil fuel imports also creates a severe challenge to national energy security. Investing in RE locally would result in an increase of jobs, which are of crucial importance to combat the high unemployment rates.

The intermittency of wind and solar is often mentioned as the main barrier. Given the current low shares of wind in most ASEAN countries, a higher penetration is possible without significant technical problems. Connecting grids and balancing with gas power or pumped hydro would enable a significantly higher uptake of local renewables.

It is clear that wind energy brings environmental benefits. But the economic advantages will most likely form the final argument for ASEAN countries to take strategic action for long-term energy diversification, which will contribute to reaching the regional target of 23% RE share in ASEAN's total primary energy supply by 2025. **JWZ**



It was a milestone experience for me interning amid the COVID-19 pandemic for ASEAN German-Energy Programme (AGEP) Phase II, a jointly implemented program between the 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), from October 2020 to April 2021. Completing my intern virtually from start to end, I was fascinated by how the organisation works despite the challenging situation. The team successfully maintained the steady flow of communication and cooperation within the project, partners, and external parties.

Working at AGEP has provided me a broader view on energy transition in ASEAN. I gained the knowledge through my primary assignment, performing desk research on ASEAN Member States County Profile 2021 infographic, which features the energy data statistic, energy target and policy, and energy activities. Presented in a way that the content should be easy to be understood for public engagement, I learned the effective way to gain public awareness on the current energy situation in the Member States.

During my six-month internship, I also had the opportunities to learn more about the project through the AGEP Document Management System (DMS) that I assisted in completing. It has allowed me to have exposure to the project in its entirety and gave me an



overview of the significance of project management documentation. Having solid stored documentation that focuses on details, I learned that it would promote the project's transparency and accountability. In addition, the DMS also plays a role in the knowledge sharing conduct, which empowers every team member to gain the same understanding and productive collaboration.

Furthermore, in November 2020, I was also delighted to join a whole week of monitoring and evaluation training that was successfully implemented online. Through this experience, I learned that having an appropriate methodology for monitoring and evaluation system will maintain the project performance as it enables the team to track the project progress, to always refer to the project's target, and mitigate issues that possibly (deviate the project/impact the project).

As an engineering graduate with a strong interest in energy projects, being involved in one of ASEAN's biggest energy projects is an extraordinary experience. Working with professionals with multicultural uniqueness and qualified individuals in their fields combined with the work ethics within the project will be valuable for my future careers. [YM](#)



*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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