

AGEP

ASEAN-German Energy Programme Newsletter

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WELCOME REMARKS

Dear Readers,

The ASEAN energy sector has undergone significant developments in the past decades. The ASEAN Community is committed to accelerating sustainable energy development which has been articulated in the ASEAN Plan of Action for Energy Cooperation (APAEC) Phase I: 2016 – 2020. Under the APAEC, the ASEAN Member States (AMS) have collectively set the aspirational target of 23% Renewable Energy (RE) share in the Total Primary Energy Supply (TPES) by 2025 and 30% Energy Intensity (EI) reduction by 2025 based on 2005 level.



The ASEAN-German Energy Programme (AGEP), 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 of Economic Cooperation and Development (BMZ), has been continuously supporting ACE to become the centre for excellence to achieve the APAEC targets. One of the prominent outputs is the development of the 6th ASEAN Energy Outlook (AEO6), a key reference to identify the gaps in achieving regional targets and provide recommendations to keep up with the current global energy trends.

In this newsletter, AGEP will provide insights on several activities conducted from January to March 2020. The development of AEO6 is in progress with the conduct of the 3rd Working Group Meeting that focused on regional targets held in Bangkok, Thailand, on 30-31 January 2020. Additionally, AGEP was invited to share its knowledge through various events, such as with Kyushu University on the topic "How to Engage in Clean Energy Development - Experience from Practitioners in Asia-Pacific" held on 27-31 January 2020 in Kyushu, Japan, and Sharing Session on Regional Energy Data on 14 February 2020 in GIZ Energy Programme Office Jakarta, Indonesia.

I am delighted that ACE, together with GIZ, is making significant headways in the finalisation of AEO6, enhancement of database, and ACE's organisational development. On behalf of ACE, I would like to express my appreciation to GIZ for the continuous and valuable support to ACE.

Finally, to obtain fresh updates on AGEP, you may visit the AGEP website (agep.aseanenergy.org), and I encourage the readers to utilise the ASEAN Energy Database System (AEDS) as a useful reference for searching the latest and up-to-date energy data of the ASEAN Member States by scanning QR Code below.

DR. NUKI AGYA UTAMA

Executive Director of ASEAN Centre for Energy (ACE)

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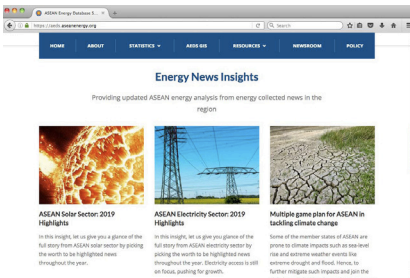
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Scan this QR code
to access the
AEDS website

Introduction to AGEP Activity on Data Management

Dear readers,



We are happy to share with you the second edition of our newsletter this year. In this edition, we invite you to dive a bit deeper into one of our main activities: data management. The enhancement of data management is one of AGEP Phase II's three main outputs, which aims at supporting ASEAN Centre for Energy (ACE) improve ASEAN Energy Data System (AEDS).

ACE initiated the development of AEDS in 2001. Since then, ACE continuously adapts the system to provide a competitive regional service for the ASEAN Member States. In 2018, the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH on behalf of the German Federal Ministry for Economic Cooperation and Development (BMZ) through the ASEAN-German Energy Programme (AGEP) not had been but started providing supports to improve its data collection and processing.

With a team of data management professionals, AGEP assists ACE in modifying the platform according to the needs of ASEAN Member States (AMS). Furthermore, AGEP also provides its assistance to ensure the future development of the platform, including its sustainability and continuous improvement. AGEP Phase II implements the following strategies to support the enhancement of the ACE data management system:

- 1 - conducting benchmarking visit on database management to various institutions,
- 2 - building expandable data architecture, and
- 3 - optimising data collection and processing.

Best regards,

Rizky Fauzianto
Team Leader of ASEAN-German Energy Program (AGEP)



Promoting the ASEAN Energy Database System (AEDS)

On 14 February 2020, the team from ASEAN-German Energy Programme (AGEP) visited the office of GIZ Energy Programme in Menteng-Jakarta to share about the ASEAN Energy Database System (AEDS) in a *Tea Time* sharing session. The facilitator was Yudiandra Yuwono (Andra), one of AGEP's technical officers who is also responsible for database enhancement. Andra provided a brief information about the ASEAN Centre for Energy (ACE) roles and the blueprint of energy cooperation, the ASEAN Plan of Action for Energy Cooperation (APAEC 2015-2025). The session focused on AEDS as the tool for ACE to strengthen its position as ASEAN regional data and knowledge hub. Background, current status, improvement plan, and potential areas of collaboration of AEDS were also discussed in the sharing session.

ACE shared the AEDS tools with the participants from GIZ Energy Programme.



AEDS is a web-based energy data and knowledge portal managed by ACE that contains official ASEAN statistics as well as energy news, policies, and other information as an overview of energy landscape in the ASEAN region. The data includes energy supply, energy consumption, electricity generation, socio-economic, APAEC target, and energy indicator. As of now, the AEDS is only accessible by the ASEAN Member States' Focal Points through <https://aeds.aseanenergy.org>. The improvement and management of AEDS were supported by AGEP Phase I in 2018 and currently supported by AGEP Phase II, focusing on the AEDS' process optimisation and flexibility for future expansions. (JM)



◀ ACE and AGEF Team Meeting on ASEAN Energy Database System (AEDS).

Advancing the ASEAN Energy Database System (AEDS)

ASEAN-German Energy Programme (AGEP) Phase II is currently working on improving the ASEAN Energy Database System (AEDS). This activity is aimed at further enhancing the ASEAN Centre for Energy's (ACE) role in becoming the region's data and knowledge hub. In recent years, the ASEAN stakeholders are getting more familiar in utilising data as an important part of decision-making process. Moreover, ASEAN is starting to shape itself as a data-driven region as the ASEAN Member States (AMS) are increasingly eager to utilise data on their policymaking process. Furthermore, in a developing region, energy plays a big role in determining ASEAN's future and therefore ACE needs to further explore its role as a regional data hub. Acknowledging the opportunity, ACE through AGEP is focusing on strengthening its position internally and externally.

Alongside the upcoming 6th ASEAN Energy Outlook, ACE will acquire many sets of updated extensive energy data from the modelling works in a form of Energy Balance Table (EBT) from multiple sectors for all ASEAN Member States (AMS). Facing

this surge of new data, ACE needs a system to ensure the input, process, and output of the AEDS. Consequently, AGEP is designing the process, not only to ensure the standardised internal storage system but also the robust, flexible, and user-friendly system so that ACE officials can upload and download data conveniently. The existence of numerous forms and format changes in energy data makes such a flexible system very important. Thus, the database system is also designed to be adjustable for other forms of data. This system will ensure that the future activities of ACE will be easier to modify and update the data.

Understanding that a holistic approach is important for both national and regional energy development. AGEP is therefore committed to supporting ACE to strengthen ASEAN capability in data through an improved centralised data hub. By doing this, the ASEAN energy sector will hopefully be able to reach its aspirational target as agreed on the ASEAN Plan of Action for Energy Cooperation (APAEC 2015-2025) blueprint. (YY)

Gathering Input to Achieve the ASEAN Energy Target

ASEAN-German Energy Programme (AGEP) successfully held its 6th ASEAN Energy Outlook (AEO6) Workshop on Regional Target on 30-31 January 2020 in Bangkok, Thailand. It marked the third and final AEO6 Working Meeting throughout its development period. The first working meeting on data was held in Yogyakarta in February 2019, continued by its second meeting on model and scenario in Phnom Penh in March 2019.

The 2-day meeting was not only attended by the representatives from energy ministries working on their countries' energy data, policy and planning, but also representatives from the region's sub-sector networks (SSN) and specialised energy bodies (SEB). It aimed to discuss and explore each countries' effort to achieve the regional target, especially the target of 23% renewable energy share in the energy mix by 2025.

The meeting was opened with the remarks from Mr Beni Suryadi from ACE and Mr Rizky Fauzianto from GIZ-AGEP, who both have been overseeing the AEO6 development since the beginning. It was then followed by a presentation on the recap and updates of AEO6 from Dr Tharinya Supasa, the AEO6 modelling team lead. Dr Supasa mentioned that the team is currently in the finalisation step of the model, which later will be reported and reviewed by a team of external experts. The outlook is planned to be launched at the 38th ASEAN Ministerial Energy Meeting (AMEM) in September 2020 in Vietnam.

The first day of the meeting was held in two parallel sessions: Plenary and Country Session. In the plenary session, the internal and external experts shared their insights on member states' effort in achieving the regional target by different sectors such as industry, transportation, commercial, residential and power sector. While in the country session, the modelling team had a more private and in-depth discussion with each countries' representatives to deliver the initial findings and gather some feedbacks on the national energy projection. On the second day, Dr Tharinya and Mr Charlie Heaps from Stockholm Environment Institute, as the technical consultant of AEO6 development, presented the initial findings for the regional outlook and further triggered the country representatives to explore a more ambitious national target to achieve the regional target.

Throughout the meeting, AGEP also had a chance to interview some participants and asked for their opinion on the ASEAN Energy Outlook development. The member states' representative mentioned that they are satisfied with the development process of this AEO6 which is systematic and structured, and how the development team has put a lot of effort in accommodating each countries' needs with its unique characteristics. Member states also hope that the finalisation of this outlook will be smoothly executed until it is officially launched in AMEM later this year. (MW)

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The 6th AEO
Workshop - 3rd
Working Meeting
in Bangkok.



Gathering **ASEAN Energy** Insights



▲ Consultation Session of The 6th ASEAN Energy Outlook (AEO6) in Bangkok.

ASEAN German Energy Programme (AGEP) held the ASEAN country consultation session on the first day of the 3rd Working Meeting of the 6th ASEAN Energy Outlook (AEO6) in Bangkok. This session was actively participated by the representatives from Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar and Thailand. The country session was arranged in a private and in-depth discussion style between the countries representatives and the AEO6 modelling team which was comprised of Tharinya Supasa (the modelling lead), Sandy Fajrian, Iqlima Fuqoha and, Mahammad Rizki Kresnawan, together with Charlie Heaps (Senior Scientist at SEI-US and Developer of LEAP). The country officials presented the results and key findings under the Baseline and National Target Scenario at the discussion. It was conducted interactively, allowing the country delegates to provide their intensive feedbacks to the team.

The conversation narrative included but not limited to the following topics:

1. energy consumption, projection, Greenhouse Gases (GHGs) trajectories by sectors and fuels,
2. forecasting methodology in detail of top-down and bottom-up approach,
3. target and technology deployment, and
4. energy saving and GHGs reduction projection.

The take-away comments will afterward be used for stringent the model alignment with the countries' Outlook in the finalisation step of the model. (TS/SF)



Sharing ASEAN Sustainable Energy Engagement

Kyushu University held the Kyushu University Energy Week 2020, an Annual International Conference on 27-31 January 2020. Under the theme “*Energy Intelligence Beyond Borders: Sharing Sustainable Energy Visions*”, the event showcased a variety of academic workshops and symposia. It also invited well-known energy researchers/lectures around the world. It gathered prominent energy practitioners from the academia, private and public sectors such as ASEAN Centre for Energy (ACE), University of Hawai’i, Renewable Energy Institute Japan, and Shizen Energy. The forum provided the knowledge exchange and practical experience sharing among the participants with the focus on “future energy”.

During the event, the ASEAN-German Energy Programme (AGEP), a jointly implemented programme 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), represented by its Team Leader, Rizky Fauzianto, shared knowledge on “ASEAN Sustainable Energy Engagement” in the “How to Engage in Clean Energy Development - Experience from Practitioners in Asia-Pacific” session together with the Asian Development Bank and USAID. As one of Kyushu University’s main events, Kyushu University Energy Week 2020, promoted exchange among researchers and practitioners in the energy sector. AGEP looks forward to continuing the collaboration with academia on sustainable energy development-related activities, particularly in the research and development of renewable energy and energy efficiency in the ASEAN region. (RF)

▼ Mr. Rizky Fauzianto shared the engagement strategy in clean energy development.



Unwinding at ACE & AGEP Joint Capacity Building Training



ACE and AGEP
team at Joint
Capacity Building
Training in Bogor

ASEAN Centre for Energy (ACE) and ASEAN-German Energy Programme (AGEP) team held a capacity building training on 6 March 2020 in Bogor. The training was technically and financially supported by AGEP - a jointly implemented programme by ACE and Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH on behalf of BMZ. This event also marked the fourth joint capacity building between ACE and AGEP.

ACE and AGEP held a separate capacity building training on 4-5 March 2020. The joint capacity building training was started with the opening remarks from the ACE's Executive Director, Dr. Nuki Agya Utama and AGEP's Team Leader, Mr. Rizky Fauzianto. The opening remarks addressed the current situation in ACE & AGEP, introduced several new faces in the team and as well as the new structure of the organisations.

After hearing the remarks from ACE and AGEP, Ms. Silke Irmscher, the facilitator of the training, introduced several activities to improve the bonds between ACE and AGEP. In the first activity, Ms. Irmscher initiated a game involving all participants to ask one another about their interests



Q&A Session in
the Training

and personal life. This activity helped the team to get to know each other better and to know what they like to do outside of their professional life. After the lunch break, Ms Irmscher invited the ACE and AGEP teams to create beautiful paper planes competition. This exercise built the good teamwork between the participants and they expressed their inner aesthetic view into the paper plane.

These activities showed that the bonding exercises through the joint capacity building training is important to see a fresh view of the team. It helped the team members to understand their teammates better, both in professional and also personal life. The participants of the training also shared their values to the team and challenges in handling their jobs, as well as the ideas to have more fun at work. (KF)



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