

AGEP

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EDITORIAL NOTE

Dear Readers,

We are delighted to bring you this quarter's newsletter and provide you the updates on activities organised and implemented by ASEAN-German Energy Programme (AGEP) Phase II. Firstly, AGEP Phase II has been in support to ASEAN Centre for Energy (ACE) in establishing a nodal network on RE R&D that includes various identified key stakeholders in the region. With a total of 97 participants, the workshop discussed the elaboration of the ASEAN RE R&D nodal network framework. The network will hopefully support the ASEAN Member States (AMS) in enhancing its sustainable energy initiatives.

Later in July, a multistakeholder dialogue to improve the Energy Efficiency (EE) policy and financing in ASEAN was successfully organised, presenting over 200 experts from energy ministries, financial institutions, project developers, and international organisations. The session included presentations and discussions on opportunities and challenges from the private sector and international organisations' perspectives. It also showcased digital service model that allows customer to choose the most efficient household products based on their cooling demand, along with its cost and energy savings calculation.

Secondly, the ASEAN country profiles on energy was launched this year featuring the updated energy statistics, analysis and recommendations from the 6th ASEAN Energy Outlook (AEO6), and activities in each country related to energy development amidst the COVID-19 pandemic. The complete information is available at: <https://agep.aseanenergy.org/country-profiles-2021/>.

Under our capacity development assistance programme, AGEP Phase II also supported ACE in organising series of virtual training on leadership, managerial and technical topic from December 2020 to May 2021. Attended by the accumulative 113 participants of overall training from ACE, we hope the experiences will bring the participants to the next level of personal and professional development.

Furthermore, in cooperation with ASEAN Foundation, AGEP Phase II organised the 1st ever virtual talkshow for the ASEAN youth in April, debunking several myths about energy transition. The talkshow included two sessions on Renewable Energy (RE) and Emerging New RE technologies, and was participated by over 120 youth across the ASEAN region. The 2nd talkshow was organised later in August presenting two topics on the roles of youth and women in energy transition. Doubling the number of the previously organised event, the second talkshow gathered almost 300 ASEAN youth who share the high interest in sustainable energy.

On a final note, any articles that you wish to submit to agep.comm@aseanenergy.org, either individually or collaboratively, are much appreciated and will make a substantial contribution to the acceleration of ASEAN energy transition. Best wishes and thank you in advance for your contribution to the ASEAN-German Energy Programme Newsletter.

Thank you and stay safe,
AGEP Phase II Editorial Team

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Supporting APAEC in Achieving Its RE Aspirational Target through RE R&D Nodal Network

As stated in the ASEAN Plan of Action for Energy Cooperation (APAEC) 2016-2025, the ASEAN region envisages a target of 23 percent renewable energy (RE) share in total primary energy supply (TPES) by 2025. One of the key efforts in energy cooperation that has been identified to achieve this target is the research and development (R&D) in RE technology.

The ASEAN-German Energy Programme (AGEP), 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), has been in support to establish a nodal network on RE R&D that includes various identified key stakeholders in the region. The nodal network consist of representatives from the

government or energy ministries through the RE Sub-Sector Network/RE-SSN (under the coordination of ACE), universities and researchers (under the coordination of ASEAN University Network/AUN), and engineers/energy experts from the private sector (under the coordination of ASEAN Federation of Engineering Organisation/AFEO). On 2 May 2021, a workshop was organised by AGEP Phase II as part of this establishment, with the objective to align the potential activities of the network with the needs of ASEAN Member States (AMS), based on the action plans from APAEC Phase II and the available resources of the members' network. This is a follow-up event after previously a focus group discussion (FGD) was conducted last year (<https://agep.aseanenergy.org/enhancing-the-research-and-development-rd-network-on-renewable-energy-re-in-asean/>).

With a total of 97 participants, the workshop started with elaboration of the RE R&D nodal network framework that has been priorly discussed with AFEO

and AUN as ACE's partners, including several planned activities such as joint research/proposal, stakeholders database development, pipelining potential funding with R&D projects, workshop and other capacity building activities in the region. The session was then followed by presentation on APAEC's Outcome Based Strategies (OBS) and Action Plans for Programme



Area No 5: Renewable Energy, to see the alignment with the planned activities that has been discussed in the previous session. AFEO and AUN also got the chance to showcase their organisations' profile and experiences to RE-SSN.

Some potential collaborations were foreseen under this network such as call-for-ideas for regional-scale study on state-of-the-art RE technology, which can be the base for high-level policy dialogue, and knowledge sharing activities (workshops, webinars, etc.) to support APAEC's action plans. The network will also support the thematic topic on bioenergy to enhance its sustainability in ASEAN by conducting studies and discussion. The resources and expertise coming from each parties have become the great building blocks for energy cooperation and future collaborations in the region. Moving forward, ACE, AFEO and AUN are going to formalise the network by signing a Memorandum of Understanding (MOU) and continue to implement the planned activities. (MW)

Multistakeholder Dialogue to Improve Energy Efficiency Policy and Financing in ASEAN



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), organised its first online workshop on energy efficiency (EE) financing in order to support ASEAN Member States (AMS) in developing and implementing effective EE financing policies and mechanisms. The workshop was held virtually on 7-8 July 2021 presenting various experts from energy ministries, financial institutions, project developers, and international organisations.

The workshop was opened with updates on the current state of EE financing development in ASEAN. In this session, representative from the Department of Alternative Energy Development and Efficiency (DEDE) shared the different financing instruments implemented for EE projects in Thailand such as Energy Conservation Promotion Fund (EnCon Fund) and Energy Efficiency Revolving Fund (EERF). The session was followed by presentation and discussion on opportunities and challenges from the private sector and international organisations' perspectives. There was also a showcase on digital service model that allows customer to choose the most efficient air conditioning products based on their cooling demand, along with its cost and energy savings calculation. The first day of the workshop was then closed with a technical knowledge exchange session on the different risks in EE projects and the importance of Measurement & Verification (M&V).

One of the most anticipated session in the workshop, conducted on the second day, was the business matchmaking session between project developers and financial institutions to increase the uptake of EE investment. The format consisted of project ideas that were pitched by PT. Energy Management Indonesia (EMI), Universiti Tunku Abdul Rahman (UTAR), ASEAN Engineering Inspector-Electrical Installation (AEI-EI) and Worldwide Energy Development. The pitches were then responded by questions, comments and inputs in order to bridge the needs of funding and funders' interest. The participating panelists in this session came from different backgrounds such as Asian Development Bank (ADB), Asian Infrastructure Investment Bank (AIIB), Clime Capital/Southeast Asia Clean Energy Foundation (SEACEF), Korea Development Bank (KDB), Private Financing Advisory Network (PFAN), and Asia-Pacific ESCO Industry Alliance (APEIA). The last day of the workshop was then closed by a discussion and input gathering on ACE future plan to develop an online web-based platform for EE projects funding application.

AGEP successfully drew general public attention to this workshop by showing the high interest in EE policy and financing activity coming not only from AMS but also from outside the region such as Japan, India, UAE and UK. This is indicated by the participation of around 200 people, consist of 58% male and 42% female participants, joining each day of the workshop coming from different background and countries. This workshop also continues AGEP's milestone to initiate

networking between various EE stakeholders which will further enhance the development and dissemination of EE financing mechanisms across the region.

(SGD/MW)

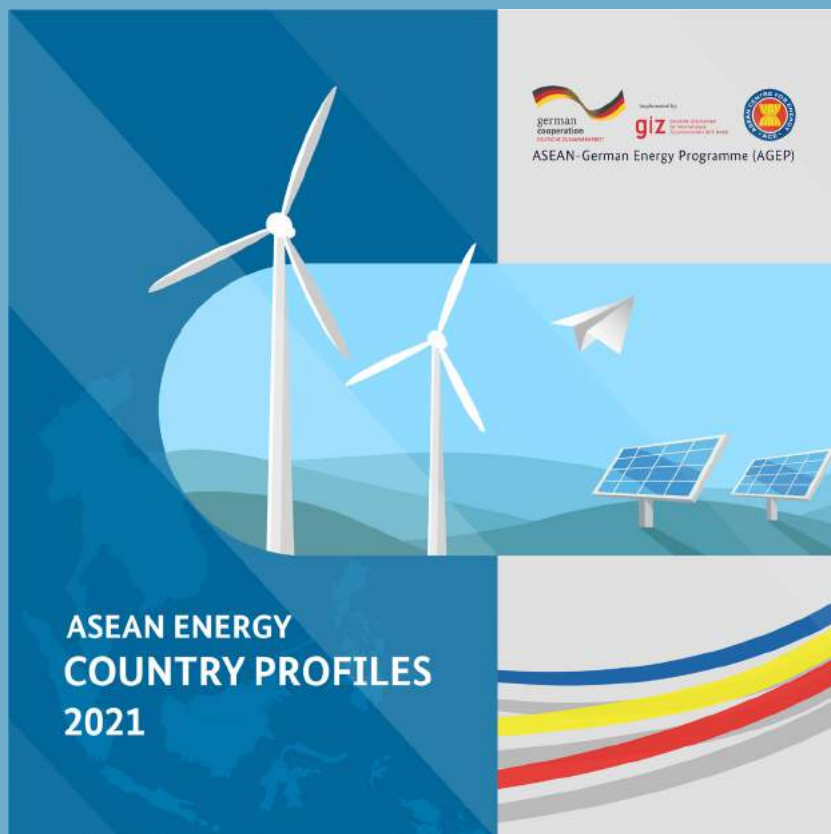


The ASEAN Country Profiles 2021

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) launched the 2021 edition of the ASEAN Country Profiles featuring the updated energy statistics, analysis and recommendations from the 6th ASEAN Energy Outlook (AEO6), and activities in each country related to energy development amidst the COVID-19 pandemic.

Based on the 2019 data from the ASEAN Energy Database System (AEDS), the ASEAN region has jointly reached an 89% electrification ratio with about 24% and growing renewable energies mix in its power generation. The detailed statistics of each ASEAN Member States (AMS) were presented in the first section to showcase countries' energy supply by type of resources, consumption by fuel and sector, installed capacity versus power generation categorised by type of technology.

The analysis from the 6th ASEAN Energy Outlook (AEO6) projected that the region's energy demand will reach triple in 2040, due to economic growth. To curb the increasing energy demand, AEO6 provided some policy recommendations through optimising energy efficiency and increasing renewable energy for several sectors. The second section highlights the recommendations grouped by sectors, such as power generation, transportation, residential, industrial and commercial.



Lastly, the third section shares some of the efforts and status of energy development of the AMS during the challenging pandemic situation. To maintain economic stability, most of the countries exercise relief policies, such as for electricity bills, oil and gas prices. On the other hand, the declining demand for energy due to activities limitation has been an opportunity for some countries for stockpiling to secure their energy supply. Although few energy development projects or powerplants were impacted by the pandemic, most of the projects especially renewable energies could still progress. (JM)



Celebrating ACE's Remarkable Achievement on Its First Massive Online Trainings

The ASEAN-German Energy Programme (AGEP), 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) continues its support in strengthening the ASEAN Centre for Energy (ACE) institutionally and organisationally, especially in the area of Human Resources by improving the staff's performance and competency. This is a concrete step in supporting ACE as the regional Centre of excellent. From December 2020 until May 2021, ACE successfully completed the training programme consisting of 20 online trainings on leadership, managerial and technical topic. This training completion marks as a milestone and achievement of the first massive online training in the ACE history.

About 31 ACE staffs participated in the training series which hopefully can bring them to the next level of personal and professional development. One of major accomplishments is the achieved number of women participations in the training which shows AGEP's commitment to supporting career development for women personnel. A total of 45% of the participants are women, which also shows that the project indicator of having an at least 40% of women participation in the training has been achieved.

"We appreciate ACE commitment to participating in the 20 training and able to achieve 45% women participation which exceeded our target to achieve 40% women participation from AGEP indicator" AGEP Team Leader Mr. Rizky Fauzianto addressed this at the Steering Committee meeting on 10 June 2021.



IPDC Training Institute as the training provider to this capacity development explained the ACE's training performance based on content and trainer evaluation. The result showed that the participants agreed that they managed to gain knowledge from the training indicated by a score 4.11 out of 5 points scale for value-added knowledge skills from overall trainings evaluation. Some participants earned highest score assigned by the trainers by assessing their class participation, exercise and the result of pre and post test. In addition, by using the same learning process



and assessment, carried out by trainers and observers in overall training sessions, ACE trainees have shown their commitment and eagerness to learned new skills sets and made significant contribution to the dynamics of the learning session with new and creative insights. They ultimately indicated their confident that they will be able to apply their learning results into their respective roles and responsibilities.

Furthermore, the consultant suggested several capacity building topics to enhance and strengthen the skills set of ACE trainees in dealing with future challenges and sustaining its very owned role and functions, such as stakeholders management, emotional intelligence, coaching skill etc. The trainers and consultant team also made observation and recommendation for further commitment in taking this into HR action plan, for instance developing KPI with lag and lead measure for learning follow-up action because it is important to implement the knowledge into their performance.

"In some organisation that we trained, after every training session is concluded, we organised a coaching session because the important learning phase in an organisation is 70% through practicing the lesson in their daily activity," said Mr. Kunkun Sundaryat, team leader from training provider, IPDC Training Institute.

To conclude the success of 20 trainings delivery, the Streeting Committee meeting expressed their appreciation to the parties involves since the module development phase until the final meeting.

"Thank you for the contribution of IPDC, GIZ and ACE staff in preparing the training session. To achieve the sustainability of the learning session, we must combine the knowledge we get to the experience and make a good leverage in the future" said Septia Buntara, manager of AGEP. (HM/SC)



Youth in Energy Transition: Switching to Sustainable Energy



In collaboration with ASEAN Foundation (AF), 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), organised a virtual talkshow entitled “Facts and Myths about Energy Transitions” to promote sustainable energy and engage with the youth across the region. The virtual talkshow was held on 28 April 2021 featuring experts in renewable energy as key speakers discussing the implementation process of renewable energy and the role of emerging technology to support renewable energy in ASEAN.

In the first session, Melati Wulandari from GIZ AGEP, explained the roadmap, progress and implementation of renewable energy to achieve ASEAN regional target to increase renewable energy (RE) up to 23% in total primary energy supply (TPES) by 2025. Through energy transitions, Jan Willem Zwarteveen of Siemens Gamesha Renewable Technology also

mentioned that ASEAN member states have received other advantages such as job creation, cost reduction and energy security. In the second session, Sandy Fajrian from ACE AGEP and Dr. Tharinya Supasa of Agora Energiewende explained the limitation and development of current RE technologies to improve energy transitions in ASEAN. They mentioned that in order to increase RE, there are several interventions that require utilisation of emerging technology.

With the lead of Mahmudi Yusbi, Head of Programme in ASEAN Foundation, and Rizky Fauzianto, GIZ AGEP's Team Leader, as moderator in each session, they succeeded in leading discussion between youth and speakers, indicated by the high participation of youth in asking various questions related to the energy transitions and in ASEAN. The virtual talkshow also encourages the youth to engage in energy transitions by joining ASEAN photo competition on sustainable energy practice where the top 3 winners and people's choice award winner will be awarded at the ASEAN Ministers on Energy Meeting (AMEM) 2021. (SGD)



Accelerating the Regional Energy Transition Powered by Youth and Women

In collaboration with ASEAN Foundation, ASEAN-German Energy Programme, 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), organised a virtual talkshow adopting “Youth and Women in Energy Transition” as the topic on 25 August 2021 which featured four key speakers from energy sectors especially from youth and women community. The main objectives of this talkshow are to increase the engagement of youth and women in energy transitions by discussing their role, opportunity, and challenges in energy sector. *“Through this seminar, hopefully it can inspire youth and women to be the agent of change towards sustainable energy”* mentioned by

and skills, while Mr Zagy of Society of Renewable Energy (SRE) explained that his organisation visions to accelerate energy transition through inclusive youth empowerment and multi-institutional collaboration in Indonesia. Currently, SRE has managed to build network with up to 34 universities in Indonesia. Mr Zagy mentioned that he saw the potential of youth to fulfill the increasing job demand in RE sector. Therefore, it is very important to engage youth in the development towards sustainable energy. *“There are 4 steps to improve youth engagement, (1) raise awareness, (2) enhance theoretical understanding, (3) implement their knowledge in practical experience, and (4) synthesize the knowledge they have received”* mentioned by Mr Zagy Berian, from Society of Renewable Energy.



Dr. Yang Mee Eng, Executive Director of ASEAN Foundation during her opening remarks with Rizky Fauzianto, Team Leader of GIZ and Septia Buntara, Manager of ACE.

In the first session, which was led by Ms Alnie Demoral from ACE, Ms Claris Canta from Student Energy mentioned that youth play a significant role in the future development, which one of them is to reduce climate change impact through pursuing sustainable energy. However, it is very unfortunate that according to Student Energy data, almost 74% of the global youth are not informed about how to contribute to solving the climate change. In her presentation, Ms Claris introduced one of student energy programs called Solution Movement that empowers young people to lead the energy transition initiatives. The Solution Movement helps the youth who are interested to support sustainable energy but lacking resources

In the second session, Ms Hana Manuela, the advisor from GIZ led discussion about the role of women in energy transition with Ms. Munlika Sompranon, Director of Energy Cooperation Department of Alternative Energy Development and Efficiency (DEDE) in Thailand and Ms. Tri Mumpuni, Executive Director and Founder of Ikatan Bisnis dan Ekonomi Kerakyatan (IBEKA) as the speakers. Ms. Munlika explained the challenges and opportunities of women in energy sector, through case study in Thailand. She identified two main barriers for women in energy sector which includes, (1) to entry the job in energy sector and (2) to retain and advance their career path in energy sectors. However, as the job opportunities are going to increase in energy sector, she saw this as an opportunity for women to also meet the job demand in the future. *“Our community-based approach project in developing solar PV to provide clean water supply for the community, especially to help the women. In the rural areas, it is women’s job to be the backbone of family and fulfill their daily necessities, among them is fetching water. Therefore, through this project, IBEKA facilitates women to easily access water supply and ease their work in meeting their daily needs”* said Ms Tri Mumpuni.

The virtual talkshow was able to attract many young people from diverse backgrounds, nine ASEAN Member States (AMS) and other countries, with a total of more than 250 participants. It also successfully shows the high-interest of women in energy transitions. Indicated by 60% of the participants are women, the virtual talkshow exceeded the AGEP gender equality indicator of 40% women participation in each of its events. (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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