

2nd Quarter | April-June 2022



Purnomo Yusgiantoro Center

E-NEWSLETTER

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A Message From

The Chairperson

Warm greetings from Purnomo Yusgiantoro Center!

PYC just celebrated its 6th anniversary on 16 June, 2022. We would like to thank our stakeholders, the PYC team, friends, and others who have contributed to the growth of PYC over the past 6 years. By learning through previous collaborations with other individuals or institutions, we are blessed to have met many passionate people who share the same vision and mission as PYC.

Recently, PYC had held many activities in this year's second term. We held several events and competitions, and some of them were conducted to celebrate PYC's 6th Anniversary, such as Paper Competition, and Essay and Poster Competitions. Thank you to all participants who have joined the competitions and congratulations to the winners! Hopefully by joining these competitions, the participants could gain more knowledge, confidence, and ambition to achieve the goals.

We have also published the final report from PYC International Energy Conference 2021. You can find the report in our website.

Last but not least, wishing all of you good health. Looking forward to a prosperous rest of the year ahead.

Warm regards,

Filda Citra Yusgiantoro, Ph.D.

Academic Corner

THE OPINION

is a channel to assert various point of views related to topics in the energy and natural resources sector

Hyundai takes the driver's seat in Indonesia's EV market

By: Akhmad Hanan (Researcher at Purnomo Yusgiantoro Center)

Budi Sunariyanto (Assistant Researcher at Purnomo Yusgiantoro Center)



In March, President Joko Widodo helped launch Indonesia's first locally made electric vehicle – [the IONIQ 5](#) – at a ceremony for a new automotive plant operated by the Hyundai Motor Group. The IONIQ5 is the first battery electric vehicle produced in the country, with the aim to supply the domestic and export EV market. The South Korean-based Hyundai has implemented a strategy to take advantage of the energy transition momentum in the transportation sector, which is a flagship program of the Indonesian government.

Indonesia is aiming to achieve net zero emissions by 2060 or sooner. However, the country is the largest market for passenger vehicles in Southeast Asia. In 2021, the [ASEAN Automotive Federation](#) reported more than 659,000 passenger vehicle sales in Indonesia, with Malaysia closing in at 452,000.

[CLICK HERE TO READ ON THE INTERPRETER](#)

Geopolitics of Critical Minerals Towards Energy Transition

By: Akhmad Hanan (Researcher at Purnomo Yusgiantoro Center)

Mayora Bunga Swastika (Researcher at Purnomo Yusgiantoro Center)



Gender equality in the energy sector is vital because it can [diversify solutions and innovation in the sector](#), especially in efforts to push a transition to green energy use and development.

Indonesia, as one of the world's [largest greenhouse gas emitters](#), has allowed [little room for women](#) to participate in accelerating green energy development and use. [Only 5%](#) of all decision-makers in Indonesia's energy sector are women.

Without women in strategic positions, renewable energy projects are [at risk of being inappropriate, or even failing](#). For example, Indonesia's geothermal energy project in Wae Sano, East Nusa Tenggara province, has created social problems because it [hasn't involved](#) indigenous groups, including women representatives, in its plan.

[CLICK HERE TO READ ON THE CONVERSATION](#)

ARTICLES IN MEDIA

This section is a collection of articles featuring our researchers in medias

Indonesia prepares “grand” renewables strategy; doubts remain over policy design, execution

Featuring: Vivi Fitriyanti (Assistant Researcher at Purnomo Yusgiantoro Center)
Massita Ayu Cindy Putriastuti (Researcher at Purnomo Yusgiantoro Center)



Indonesia, aiming for net-zero emissions and a fully-decarbonized power sector by 2060, could soon have a bespoke legal framework to promote investments in renewable generation and low-carbon energy sources.

Late last month, [the Indonesian parliament](#) resumed discussions over the New and Renewable Energy Bill in the hope of passing it into law before the G20 summit in November, which will be held on the Indonesian island of Bali.

The draft legislation, which had been stalled for years, aims to define how the Indonesia government can incentivize renewable and low-carbon energy deployment to reduce emissions.

While detailed rules are yet to be ironed out, early reports suggested that lawmakers are proposing subsidies and export taxes on renewable projects, a renewable energy fund, carbon trading fees for research, among other fiscal incentives and support measures.

[CLICK HERE TO READ THE FULL INTERVIEW](#)

SPEAK OUT [EPISODE 2] - Is CCUS Project the Best Solution to Address Climate Change or Not?

Featuring: Haryanto (Researcher at Purnomo Yusgiantoro Center)



One of our researcher, Haryanto, was featured on Speak Out, a podcast ran by SPE Universitas Pertamina SC. Haryanto appeared on Episode 2 titled "Is CCUS Project the Best Solution to Address Climate Change or Not?" which was published on 16 April 2022. The episode discussed the Best Solution to Address Climate Change, especially about the CCUS project or technology. The episode was moderated by Ester Anggreni and Andi Magrifah from SPE Universitas Pertamina SC. Haryanto

hoped the discussion will spark more interest on CCUS Project from a lot of people, even those who are not working in the energy sector.

Click below to watch this episode

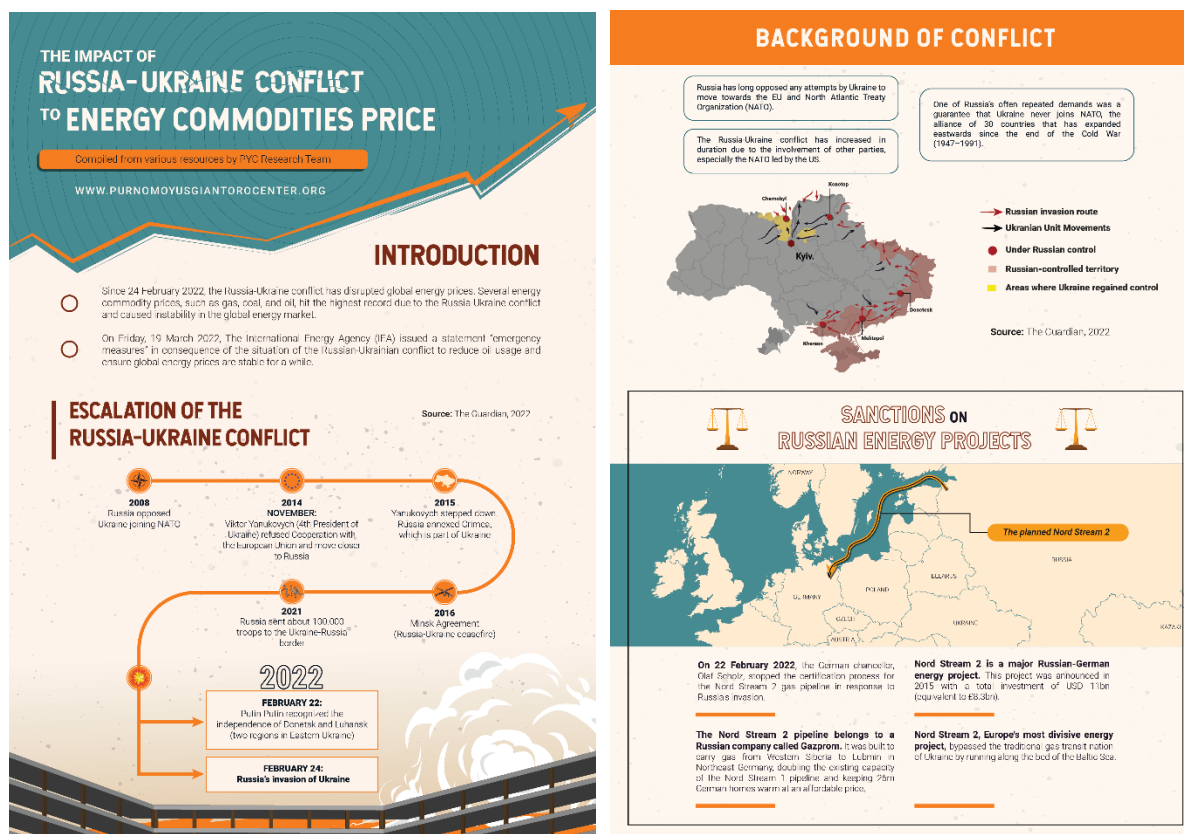


INFOGRAPHICS

This section is a collection of infographics arranged by our research team. The data is gathered from our Data Center and various sources.

The Impact of Russia-Ukraine Conflict to Energy Commodities Price

How Is the Escalating Conflict Between Russia and Ukraine Affecting the Movement of the Energy Sector?



When Russia invaded Ukraine on 24 February 2022, the international economy had just recovered from the COVID-19 outbreak. However, now that the West and its allies have enforced sanctions on Russia, it must cope with the rising of oil and other commodity prices as well as other economic disruptions around the world. Consumers' expenditure will be reduced when energy prices rise while the consumption decreases. At the same time, increased geopolitical concerns will exacerbate market volatility, causing investment flows to be disrupted. The slowing growth will have repercussions throughout the world.

See the full explanation in this infographic!

[CLICK HERE TO READ THE INFOGRAPHIC](#)

Our Publications

Energy Drink by PYC Ep. 25 – *Peran Perempuan dalam Transisi Energi* (Feat. Dyah Roro Esti)



Globally, the participation of the female workforce in the energy sector is still low. According to a study by McKinsey, only 15% of the workforce in the oil and gas sector in the world are women, 17% in the electricity and utility sector, and 32% in renewable energy. The low involvement of women in the energy sector can be caused by several factors. First, the stereotype of work in the energy sector is often seen as a "difficult" and masculine job for women. Second, some people tend to view women only as energy consumers. In addition, women's empowerment is still minimal and there is a lack of role models that can be used as role models.

This podcast episode will discuss how women with their special characteristics have great potential to actively contribute to the energy transition. In addition, this podcast is expected to motivate Indonesian women, especially the younger generation, not to be afraid to choose education and careers in the energy sector.

All will be discussed exclusively with Ms. Dyah Roro Esti, B.A., M.Sc., Member of Commission VII of the House of Representatives of the Republic of Indonesia, and member of our research team, Felicia.

Click below to watch this episode



ENERGY 24/7

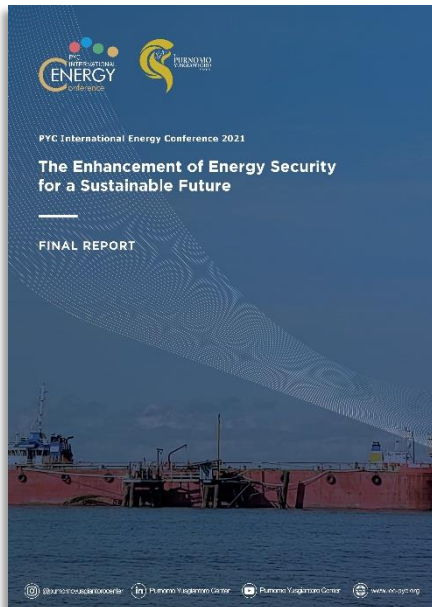


ENERGY 24/7 is a part of our Energy Drink Podcast. We cover the latest and the hottest news in the energy sector and present it to you every Saturday. Keep yourself informed with the latest energy updates by listening to ENERGY 24/7.

Click below to listen



The Enhancement of Energy Security for a Sustainable Future – PYC IEC 2021 Final Report



Indonesia needs to address the conceptualization of energy security to help policies' formulation. Indonesia follows the concept of four As for its energy security. Currently, Indonesia has a strong dependence on fossil fuels, depicted by its higher consumption than domestic production. In 2020, fossil energy accounted for 88.7% of Indonesia's energy mix, and the remaining was contributed by renewable energy.

As a result, Indonesia has a high expenditure on imported fuel, LPG, and other petroleum products to guarantee its availability. Moreover, Indonesia's subsidy policy has maintained the people's purchasing power, despite its justice needs to be further assessed.

Indonesia's SDGs targets are still progressing, with Indonesia's SDG7 (affordable and clean energy) target is in the on-track category, while SDG13 (climate action) is in the stagnant category. Thus, without solid commitment, Indonesia may not be able to reduce the 29% and 41% of GHG emissions conditionally by international aid by 2030. Hence, the key to enhancing the sustainability aspect of energy security lies in

the synchronization of energy and climate action. Specifically, energy diversification has to be accelerated, and it requires all stakeholders' involvement to solve these issues.

We focus on three issues as in the following: the role of fossil energy in the energy transition; the role of electricity in Net Zero Emissions; and the development of new and renewable energy to strengthen energy security.

[CLICK HERE TO READ THE FINAL REPORT](#)

Data Center

PYC Data Center is a website-based data platform that provides information on policy, economics and statistics related to energy and mineral resources.



STATISTICS



ECONOMY



GLOSSARY AND ANNEX



POLICY

Data Updates (May 2022)

- [FUEL CONSUMPTION OF PLN POWER PLANT](#)
- [PLN POWER GENERATION BY COAL](#)
- [PLN POWER GENERATION BY NATURAL GAS](#)
- [PLN POWER GENERATION BY FUEL](#)
- [POWER PLANT PRODUCTION](#)
- [PLN POWER PLANT CAPACITY](#)
- [PLN NUMBER OF POWER GENERATION](#)
- [PLN ENERGY SOLD PER VOLTAGE TYPE](#)
- [PLN NUMBER OF CUSTOMER PER VOLTAGE TYPE](#)
- [PLN ELECTRICITY TARIFF IN INDONESIA](#)

WWW.DATACENTER-PYC.ORG

Events in Energy Sector

Focus Group Discussion **BumDes** Energy with Heriot-Watt University



On Thursday, 14 April 2022, Energy Economics and Financing Team Purnomo Yusgiantoro Center (PYC) conducted an FGD in collaboration with the Ph.D. candidate from Heriot-Watt University, Orkney Campus, Henny Gunawan, Ph.D., and the MM. Executive Coach, Bakrie University, Dr. Ir. Urip Sedyowidodo. This FGD aimed to get insight and discuss how to develop a novel approach to financing schemes for renewable energy projects in Eastern Indonesia. It is attended by the village's state-owned enterprise (BUMDes), NGOs, universities, private sectors, and the government. This FGD is also part of the joint research project between PYC and HWU.

The Ensignt: “**Disrupsi Masif di Pasar Energi Global: Pembelajaran bagi Ketahanan Energi Indonesia** (Massive Disruption in the Global Energy Market: Lessons for Indonesia's Energy Security)”



Purnomo Yusgiantoro Center held its regular event, The Ensignt, on Saturday, 23 April 2022. The theme was "Massive Disruption in the Global Energy Market: Lessons for Indonesia's Energy Security." The speakers for this event were the Governor of Lembaga Ketahanan Nasional (Lemhannas) of the Republic of Indonesia, Andi Widjanto, and the Chief Commissioner of PT Perusahaan Gas Negara (PGN), Arcandra Tahar; with the moderator Budi Prayogo Sunariyanto (PYC Researcher).

EVENTS IN **ENERGY SECTOR**

The first speaker, Andi Widjajanto, said there is a close relationship that drives fluctuations and instability in energy prices with global disruptions such as the current Russia-Ukraine Conflict. The second speaker, Arcandra Tahar, noted that the energy security strategy for Indonesia is domestic-based supply.

To close the event, the founder of PYC, Purnomo Yusgiantoro, said, "The energy transition is still in the making, which is still being carried out from time to time."

ASEAN-Norway Partnership on Energy & Climate



On 11 May 2022, the Chairperson of Purnomo Yusgiantoro Center (PYC), Filda C. Yusgiantoro, S.T., M.B.M., M.B.A., Ph.D., was invited to be a panelist at the ASEAN-Norway Partnership on Energy & Climate. This event was hosted by ASEAN Centre for Energy (ACE) in collaboration with the Norwegian Institute for Foreign Policy (NUPI). This event aimed to build a region-wide interaction on the collaboration to address the challenges of the sustainable energy transition.

On this occasion, Filda delivered her perspective on the critical measures and policy developments to achieve a green energy transition in ASEAN. She emphasized that collaboration between stakeholders is one of the keys to accelerating a green energy transition. Filda also stated that sustainable energy transition must consider the aspects of energy security, particularly affordability. This event also opens partnership opportunities for ASEAN to collaborate with Norway to support the decarbonization in ASEAN countries.

Focus Group Discussion with Pusat Kajian Anggaran Dewan Perwakilan Rakyat Republik Indonesia

On 17 May 2022, The Chairperson of Purnomo Yusgiantoro Center, Filda C. Yusgiantoro, S.T., M.B.M., M.B.A., Ph.D., was invited to attend the Focus Group Discussion (FGD) held by the Center for Budget Studies of the Indonesian House of Representatives. This FGD aimed to discuss macroeconomic framework projection and fiscal policy principles in 2023. In this session, Filda highlighted the issues within oil and gas upstream activities, Indonesian Crude Price, and its impact on macroeconomic framework projection. She emphasized that the upstream oil industry needs further fiscal and non-fiscal support to encourage more exploration activities and improve domestic oil lifting.



Meanwhile, the increasing demand for natural gas, through city gas networks and industry, would absorb more produced natural gas and is critical as a bridging fuel. Regarding the Indonesian Crude Price projection, the government should be aware of how the geopolitical conflict would grow. The crude price projection published in several reports could be considered before deciding on the Indonesian Crude Price in 2023.

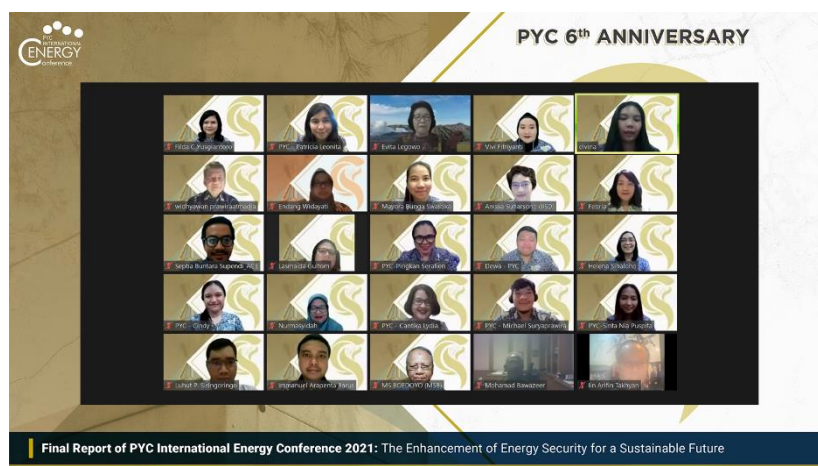
PYC 6th Anniversary Essay & Poster Competition



In order to develop critical thinking and introduce energy issues to high school students, Purnomo Yusgiantoro Center (PYC) held an Essay and Poster Contest, which is a part of the series for "PYC 6th Anniversary" in 2022. The theme raised is "Integration between Energy, Development and Climate Change."

The Essay Competition category will feature 10 winners and the work will be recorded by PYC, while the poster competition category has 5 main winners who had gone through presentations and 1 favorite winner through "Like" voting on Instagram. All winners will be announced at PYC's 6th Anniversary event on Thursday, 16 June 2022.

Presentation of the PYC International Energy Conference 2021 Final Report: The Enhancement of Energy Security for a Sustainable Future



To celebrate our 6th Anniversary, Purnomo Yusgiantoro Center held the Presentation of the PYC International Energy Conference 2021 Final Report, with the theme “The Enhancement of Energy Security for a Sustainable Future.” The event was conducted online on Thursday, 16 June 2022, and it was opened by a speech from our Chairperson, Filda C. Yusgiantoro, S.T., M.B.M., M.B.A., Ph.D. Joining the celebratory event was the founder of PYC, Prof. Purnomo Yusgiantoro; Septia Buntara Supendi, the Manager of the Renewable Energy and Energy Efficiency Department at ASEAN Centre for Energy; Widhyawan Prawiraatmadja, a lecturer at *Sekolah Bisnis dan Manajemen* Institut Teknologi Bandung; and Anissa Suharsono, an Energy Policy Associate at International Institute for Sustainable Development.

In this event, Filda reiterated the 4A approach and the importance of developing the energy sector by paying attention to the energy transition to cleaner and environmentally friendly energy. Then, in the midst of an increasingly massive energy transition, the fossil energy sector can still contribute to energy security and sustainability, namely by diversifying its business portfolio through the development of EBT, integration with the petrochemical industry, and prioritizing ESG aspects in business continuity. Other than that, power generation diversification is the key to meeting the NZE target.

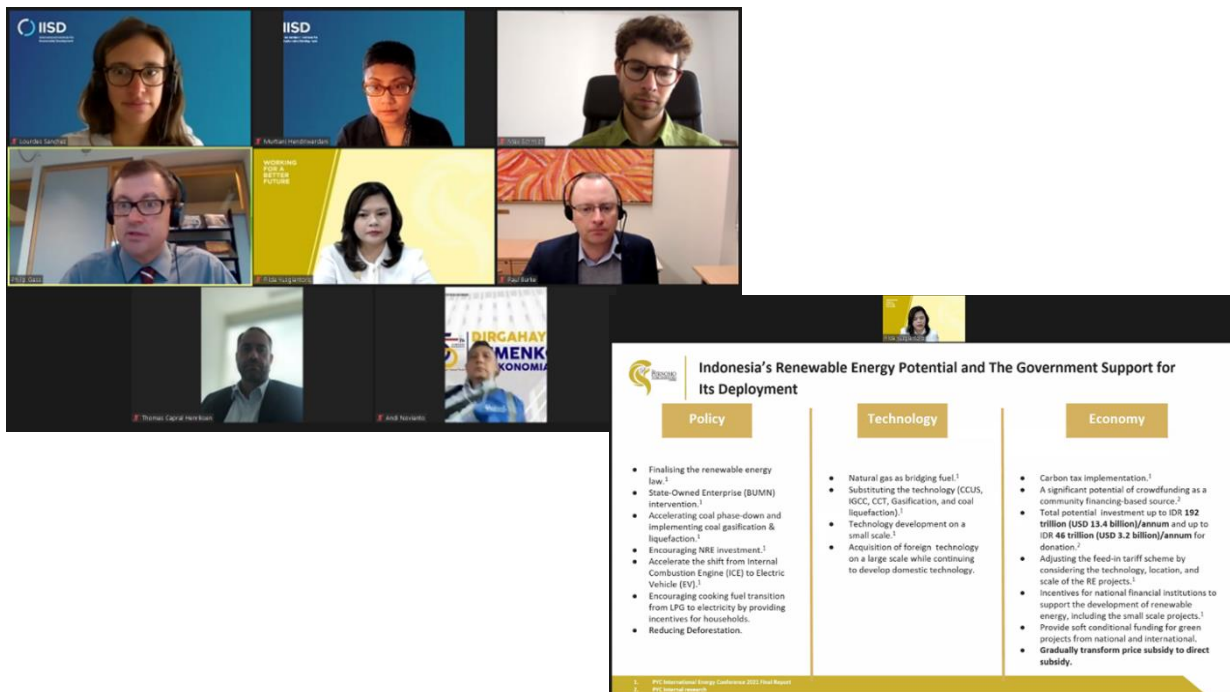
Focus Group Discussion with National Energy Council - The Projection of Indonesia's Final Energy Consumption



On Tuesday, 21 June 2022, the National Energy Council Indonesia held a focus group discussion (FGD) on the projection of Indonesia's final energy consumption from 2022 to 2070, at PLN UIP2B, Depok, West Java, and virtually via Zoom. The discussion led by Dr. Ir. Herman Darnel Ibrahim, M.Sc. IPU aimed to gather insights from multi-stakeholders in the energy sector in Indonesia, especially on the subject of projections on economic growth, population growth, and essential assumptions to be considered in updating the National Energy Policy (KEN). The discussion began with a comprehensive presentation on the calculation of adjustment of GDP and population growth assumptions, presented by Khoirunurrofik, S.Si., M.A., MPM., Ph.D., University of Indonesia. And then followed by a presentation by the representatives from the Institut Teknologi Bandung, Dr. Ir. Retno Gumilang Dewi, M.Env.Eng.Sc. and Ir. Utjok W. R. Siagian, M.Sc., Ph.D., presented a model of final energy consumption for the year 2020-2070.

Several stakeholders attended the discussion, such as the permanent representative of the government member of DEN, academics, ministries, institutions, business entities, and associations, including the Purnomo Yusgiantoro Center (PYC). The Chairperson of PYC, Filda Citra Yusgiantoro, S.T., M.B.M., M.B.A., Ph.D., and two researchers of PYC, Budi Sunariyanto, S.T., M.Sc., and Haryanto, S.Si., M.Sc. attended the discussion to share some perspectives, including the importance of considering the dynamics of primary energy prices and pricing, consumers and producers segmentation, and other macro-economic indicators.

Indonesia Energy Support Measures Webinar with IISD



Indonesia's Renewable Energy Potential and The Government Support for Its Deployment

Policy	Technology	Economy
<ul style="list-style-type: none"> Finalising the renewable energy law.¹ State-Owned Enterprise (BUMN) intervention.¹ Accelerating coal phase-down and implementing coal gasification & liquefaction.¹ Encouraging NRE investment.¹ Accelerate the shift from Internal Combustion Engine (ICE) to Electric Vehicle (EV).¹ Encouraging cooking fuel transition from LPG to electricity by providing incentives for households.¹ Reducing Deforestation. 	<ul style="list-style-type: none"> Natural gas as bridging fuel.¹ Substituting the technology (CCUS, IGCC, CCT, Gasification, and coal liquefaction).¹ Technology development on a small scale.¹ Acquisition of foreign technology on a large scale while continuing to develop domestic technology. 	<ul style="list-style-type: none"> Carbon tax implementation.¹ A significant potential of crowdfunding as a community financing-based source.² Total potential investment up to IDR 192 trillion (USD 13.4 billion)/annum and up to IDR 46 trillion (USD 3.2 billion)/annum for donation.² Adjusting the feed-in tariff scheme by considering the technology, location, and scale of the RE projects.¹ Incentives for national financial institutions to support the development of renewable energy, including the small scale projects.¹ Provide soft conditional funding for green projects from national and international. Gradually transform price subsidy to direct subsidy.

1. PTG International Energy Conference (PTG-IEC) 2021, Final Report and General Report.
2. PTG International Energy Conference (PTG-IEC) 2021, Final Report and General Report.

On 22 June 2022, the Chairperson of Purnomo Yusgiantoro Center, Filda C. Yusgiantoro, S.T., M.B.M., M.B.A., Ph.D., was invited to a panel discussion to respond to the recent report published by The IISD Indonesia Energy Team. The report presented the support measures for the energy sector in Indonesia, including oil and gas, coal, and renewable energy. In her session, Filda explained how affordability is critical to Indonesia's energy security. It is because people's purchasing power is still low, and there is no direct subsidy policy. She also highlighted that the increased subsidy by the government is unavoidable as it is necessary to protect people's purchase power in the midst of the economic rebound of post-pandemic COVID 19. However, it also indicates that Indonesia is still vulnerable to energy price shock, and it is the right momentum to accelerate the energy transition agenda.

Soft-Launching and Book Review of *Politik Energi: Teori dan Aplikasi*



To add more celebration for Purnomo Yusgiantoro Center's 6th Anniversary, we held the Soft Launching and Book Review of *Politik Energi: Teori dan Aplikasi* on 27 June 2022. The book was written with great diligence by the founder of PYC, Prof. Purnomo Yusgiantoro, to enrich the theoretical and practical treasures in the energy sector so that they have a holistic understanding. In addition, this book will complement the author's previous work on *Ekonomi Energi: Teori dan Aplikasi*.

The event was held online and was opened by the Chairperson of PYC, Filda C. Yusgiantoro. The book reviewers attended this event were Djoko Siswanto, Secretary General of National Energy Council; Kardaya Warnika, Member of Komisi XI DPR Republik Indonesia; Hikmahanto Juwana, Rector of Universitas Jenderal Achmad Yani; and Akhmad Hanan, a researcher of PYC.

Social Initiatives

Bakti Sosial Hari Kartini PYC



Purnomo Yusgiantoro Center (PYC) held a social service event to commemorate Kartini Day on April 2022, by providing basic necessities to female workers in the area around PYC office, Jalan Wijaya IX No. 12, Kebayoran Baru, South Jakarta, on Thursday, 21 April 2022.

At this event, Lis Purnomo Yusgiantoro and PYC's executive board were present and also invited female street sweepers from Melawai and Kramat Pela, female workers from Pertamina Gandaria City gas stations, female drivers from PT Transportasi Jakarta (TransJakarta), and female employees at the Kebayoran Baru District Health Center.

This social service activity became one of PYC's support to help Indonesian women who worked hard to support and help the family economy.

Other Events

Kartini Day Celebration



To celebrate Kartini Day, the HRD Department held a Kartini Day Competition for PYC staff and support team. This competition concluded the Kartini Day Social Service event at the Purnomo Yusgiantoro Center office, which was held on 21 April 2022.

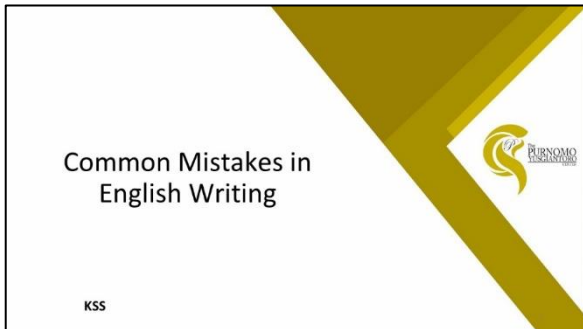
The event was a fashion competition that took the theme from the Javanese culture named *Ngadi Salira Ngadi Busana*. It was not only about wrapping cloth to the body, but the participants will also wear the cloth with their regional clothing. Although the theme of the competition was from the Javanese culture, at the competition, the participants wore clothes from different regions in Indonesia. They were very enthusiastic in joining the competition and had so much fun learning about a culture that they had never learned before.

Focus Group Discussion (FGD) *Pertahanan IKN Ditinjau dari Matra Laut*



On 24 May 2022, Sekolah Staf dan Komando TNI Angkatan Laut (Seskoal) held an FGD titled "*Pertahanan IKN Ditinjau dari Matra Laut*". This FGD was held in Cipulir, Jakarta. Prof. Purnomo Yusgiantoro, the Founder of PYC, was one of the speakers at this FGD. Prof. Purnomo conveyed a topic "*Kolaborasi Militer dan Sipil dalam Konsep Pertahanan Matra Laut Ibu Kota Negara (IKN) Menghadapi Ancaman Perang Modern*". Prof. Purnomo explained the role of civilians in supporting the relocation of the nation's capital. He conveyed that all citizens have to support and actively participate in facing the dynamics of relocation the national capital according to their fields and professions.

Knowledge Sharing Session: “Common Mistakes in English Writing”



This May, the HR Department held *Knowledge Sharing Session* with the theme “Common Mistakes in English Writing”. KSS was held on 31 May 2022 virtually on Zoom meeting, and the participants came from all departments.

The session discussed the basic points that are always missed in English writing, such as how to use articles (the, a, and an); italics and quotation marks in titles; and capitalization within titles. The session started with a

brief introduction about the common mistakes, continued with the explanation, and finished with the quiz.

All participants who joined seemed enthusiastic and actively engaged in the session. After Cindy opened the question-and-answer time, many of them asked questions regarding the materials. Other than that, they could also do the quiz well.

With the enthusiasm of participants in this *Knowledge Sharing Session: “Common Mistakes in English Writing”*, PYC hopes that we could keep this program for exploring other exciting themes.

Hari Olahraga PYC



In order to celebrate PYC 6th Anniversary, the HR Department held an internal event with the theme *Hari Olahraga*. *Hari Olahraga* was a sports event and aimed not only to build sportsmanship but also to keep our team members healthy.

On this occasion, the event was created into a sports competition. The sports that were being competed were badminton, chess and panco. Before all the staff went into the competition, they did aerobics with the guest instructor, Pak Biin. This event itself was held in two places: Purnomo Yusgiantoro Center office for aerobics, chess and panco; and Supreme Arena Badminton Court for badminton.

The event started at 9 am and ended at 6 pm. It went smoothly and all the staff were happy to participate. With the great reaction from all the staff, it can be sure that next time, the HR Department will hold this event again.

PYC Supports the Antasena Alpha Team From ITS



Purnomo Yusgiantoro Center (PYC) supports the Antasena Alpha team in manufacturing a car powered by hydrogen energy, which is the works of the Institut Teknologi Sepuluh Nopember (ITS) students. They are once again preparing to show their achievement at the international level, on the Shell Eco Marathon (SEM) Asia 2022 event.

Quoted from sindikatpost.com, Antasena Alpha ITS Supervisor team, Sutarsis revealed the reason for choosing hydrogen as the main energy source was because hydrogen is a renewable energy source that is abundantly available in nature.

PYC 6th Anniversary



PYC commemorates its 6th anniversary on 16 June 2022, and for this occasion, PYC held an Anniversary Lunch for the Governing, Supervisory, Executive boards, staff and researchers; and together with the support team. Aside from celebrating PYC's anniversary, the event was also held to celebrate the birthday of the founder of our foundation, Prof. Purnomo Yusgiantoro.

The Anniversary Lunch was opened by remarks from the Chairperson of PYC, Filda C. Yusgiantoro, then continued by a member of the PYC Governing Board, Luky A. Yusgiantoro, and the PYC Treasurer, Febria Yusgiantoro. After that, Prof. Purnomo gave his remarks and messages as well. Next, the team prayed together for the success of PYC led by Mr. Subarno, and watched the video of Prof. Purnomo Yusgiantoro birthday wishes from PYC staff and researchers. The event was closed with a shared lunch for the PYC team.

First Aid Training for PYC by Palang Merah Indonesia



On 25 June 2022, PYC held an internal First Aid Training, trained by Palang Merah Indonesia (PMI). The training was attended by 30 participants of the PYC staff and support team. It was held at the PYC office for approximately 8 hours, by combining interactive lecture methods and simulation learning. This training aimed to provide basic knowledge and skills in first aid and cardiopulmonary resuscitation. Apart from that, several cases of daily medical emergencies were also simulated, such as handling a patient who had fainted and how to bandage an arm or leg wound. With this training, it is hoped that the PYC team can be wiser and more alert in dealing with emergency cases that may occur in the office environment.

Mrs. Lis Purnomo's Birthday Celebration



Still in line with the celebration of the PYC Anniversary, the HR Department held another event this month. PYC celebrated the birthday of Mrs. Lis Purnomo Yusgiantoro, our member of the PYC Governing Board and the wife of Mr. Purnomo Yusgiantoro. The event was opened with remarks from Mr. Purnomo Yusgiantoro himself and continued by Mrs. Yusgiantoro's messages for everyone in PYC.

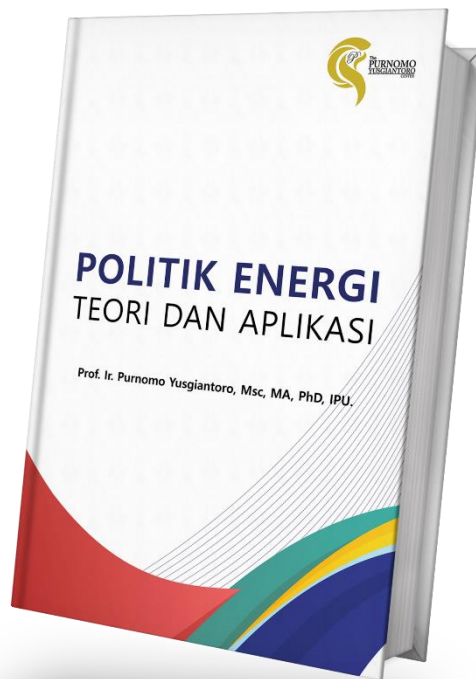
After that, there was prayer together led by Mr. Subarno, followed by watching the video of Mrs. Lis Purnomo's birthday wishes from PYC staff and researchers. The event was closed with a shared lunch for the entire PYC team.

Upcoming Events

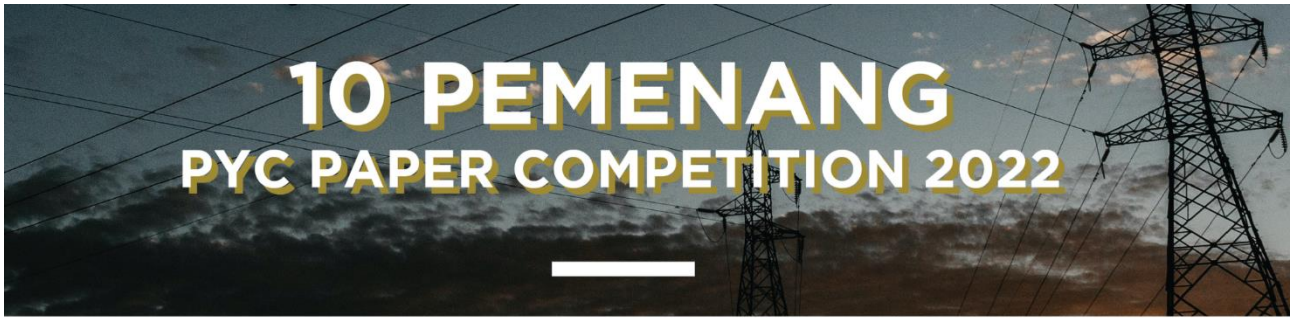
Coming Soon!

Politik Energi: Teori dan Aplikasi

By: Prof. Ir. Purnomo Yusgiantoro, M.Sc., M.A., Ph.D., IPU.



More From Us



10

An Opportunity Geothermal Energy Resources from Back Arc: A case study from Sukadana Basalt, Lampung, Indonesia

Luhut Pardamean Siringoringo, Candra Sadaperarih Sipayung
Institut Teknologi Sumatera

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Sustaining Coal Energy Generation Security by Utilizing Carbon Emission with Urea Production

Muhammad Rafiuddin, Rasyid Mahdavi A.N., Dito Ata'ul Momin Wicaksono
Insitut Teknologi Bandung

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The Urgency of Ocean Renewable Energy for Marine Protected Areas in Indonesia

Noir Primadona Purba (Universitas Padjadjaran), Marine K. Martasuganda (Movement for The Ocean (MOCEAN)), Ibnu Faizal (School of Engineering, University of Edinburgh), Munawir B. Pratama (KOMITMEN Research Group), Nabila A. Putri, Muhammad H. Ilmi (Universitas Padjadjaran)

7

Fostering Energy Efficiency Through Street Lighting System Improvement: A Case Study of City-Level in Indonesia

Robi Kurniawan, Irwan Wahyu Kurniawan
Ministry of Energy and Mineral Resources

6

A Comprehensive Laboratory Study of Palm Oil Based-Surfactant EOR: A Case Study of Alcohol-Alkoxy-Sulfate Based Surfactant Application in Light Oil Reservoir

Eryko Despriady, Yazid Esga Kurniawan, Yusuf Ghani Fauzi, Bayu Dedi Prasetyo, Ilham Ardatul Putra
Politeknik Energi dan Mineral Akamigas
LEMIGAS Research and Development Center of Oil and Gas Technology

10 PEMENANG PYC PAPER COMPETITION 2022

5

Integrated Solar Energy Application System Development to Catalyze Public Participation Towards Bali Clean Energy Through Crowd-Based Business Models

Sadiid Arifin, Al Hilal Firdaus S. A., Azarine Raina Erwita Putri
Institut Teknologi Bandung

4

Analysis of Characteristic of the Activated Carbon and Paraffin Wax-Based Gas Diffusion Electrode for Magnesium-Air Fuel Cell

Achmad Gufron, Khaironik Haryono, Budi Santosa Ferdiansjah
Universitas Gadjah Mada

3

Integration of Clustering System and Joint Venture Business Model for CCUS Deployment: A Case Study in South Sumatra Region

Martinus Bhima Prajna Indrasuta, Adryan Samuel Hutagalung, Saeful Ghofar Zamianle Putra, Radista Saga, Aurellia Anindita Rizky
Insitut Teknologi Bandung
Universitas Gadjah Mada

2

Identification of 3D Modeling of Subsurface Structures of a Geothermal System Using the Gravity Method of the Mount Lawu Area, Central Java

Feby Puspita Sari, Andini Restiana, Nabila Firyra
Syarif Hidayatullah State Islamic University

1

Smart Microgrid Design in the form of Solar Power Plant and Geothermal Power Plant to Support the Utilization of New and Renewable Energy as Investment in Reducing Operational Costs of the Rokan Block

Gifhar Rahman, Fauzan Rafi Miraj, Muhammad Daffa Akbar Fahrizky, Anggun Rahmawati, Nanda Febriyana
Diponegoro University

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PEMENANG LOMBA POSTER



JUARA 5

Pengembangan EBT
Subtema: Transisi Energi melalui Inovasi Teknologi
Energi Bersih dan Pengembangan Energi Baru
Terbarukan (EBT)

Christalia Syalomita - SMAN 1 PURBALINGGA

Rp1.500.000



JUARA 4

Save The Earth Start From Us
Subtema: Energi & Perubahan Iklim

Michael Owen - SMK Pariwisata Harapan
Denpasar

Rp1.750.000



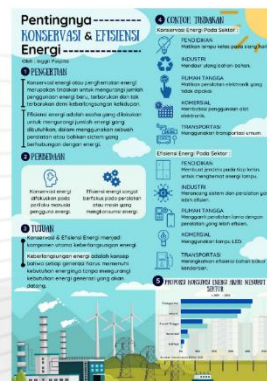
JUARA 3

ARDIS-CC: Inovasi Aplikasi Komik Digital
Terintegrasi Augmented Reality Sebagai Media
Edukasi Tentang Energi dan Perubahan Iklim Bagi
Generasi Z di Indonesia

Subtema: Energi & Perubahan Iklim

Dika Alif Kurniawan - SMA PGRI 2 KAYEN

Rp2.000.000



JUARA 2

Pentingnya Konservasi & Efisiensi Energi
Subtema: Konservasi & Efisiensi Energi

Inggit Puspita - SMKN 11 Bandung

Rp2.250.000

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JUARA 1

AYO HEMAT ENERGI UNTUK SELAMATKAN BUMI
Subtema: Konservasi & Efisiensi Energi

Lasmana Adi Nugraha - SMKN 1 PEMALANG

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JUARA FAVORIT: 293 LIKES

Smart Plaster and Producing Electricity
Subtema: Transisi Energi melalui Inovasi Teknologi
Energi Bersih dan Pengembangan Energi Baru
Terbarukan (EBT)

Mohammad Jiddan Labib & Niko Ramzy Wardhana
SMAN 1 Jepara

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Untuk Siswa SMA Sederajat

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"INTEGRASI SEKTOR ENERGI DAN PERUBAHAN IKLIM"

○



PEMENANG LOMBA ESAI

5

BEL-PRO: BIOPLANT MENGGUNAKAN ENZIM LUCIFERASE DAN GREEN FLUORESCENT PROTEIN UNTUK MENGHASILKAN CAHAYA HIJAU PADA TANAMAN SRI REZEKI (Aglaonema sp.) SEBAGAI SUMBER ENERGI LISTRIK TERBARUKAN DI ERA SOCIETY 5.0

Rachmad Arsyad Al Fathani - SMK NU2 Kedungpring

Rp1.500.000

4

Sistem Terintegrasi Multisumber EBT Untuk Mengatasi Intermitensi dan Meningkatkan Efisiensi Perolehan Energi Listrik yang Berkelanjutan

Nadya Ursula Sarasdewi Herlambang - SMA Stella Duce 1 Yogyakarta

Rp1.750.000

3

SMART CABIN PENDINGIN SUHU KABIN MOBIL SEBAGAI PENGOPTIMALAN ENERGI PANAS BUMI INDONESIA MENUJU TARGET EBT 2025

Lovetta Sella Octa, Yuniar Aldi, & Faujan Yanwari - SMK Global Teknologi

Rp2.000.000

2

Manajemen Energi Fosil yang Efisien dan Konservatif sebagai Upaya Pencegahan Krisis Energi

Calvin Sentosa - SMA Katolik St. Louis 1 Surabaya

Rp2.250.000

1

MITIGASI RISIKO PERUBAHAN IKLIM MELALUI PROGRAM EARTH FRIENDLY SCHOOL

Muhammad Dzakwan Alifi & Kaylah Ziyadah Imana
SMA IT Nur Hidayah Sukoharjo

Rp2.500.000

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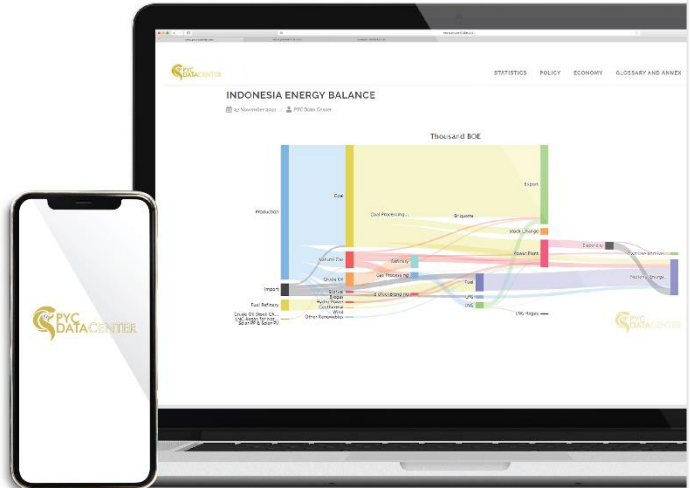


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