Academic Corner
Our Publications
Events in Energy Sector
Social Initiatives Events
Upcoming Events
More From Us
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.
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.

Geopolitics of Critical Minerals Towards Energy Transition
By: Akhmad Hanan (Researcher at Purnomo Yusgiantoro Center)  
Mayora Bunga Swastika (Reseacher 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.
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

YouTube
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!
Our Publications
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

- Spotify
- YouTube
- Apple Podcasts
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

[Spotify logo]  [Apple Podcasts logo]
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.
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.

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.


Purnomo Yusgiantoro Center held its regular event, The Ensight, 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 Widjajanto, and the Chief Commissioner of PT Perusahaan Gas Negara (PGN), Arcandra Tahar; with the moderator Budi Prayogo Sunariyanto (PYC Researcher).
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.

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 Khoirunurrofiq, 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.
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.
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.
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.
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 PEMENANG
PYC PAPER COMPETITION 2022

10
An Opportunity Geothermal Energy Resources from Back Arc: A case study from Sukadana Basalt, Lampung, Indonesia
Luhut Pandeman Siringoringo, Candra Sadaperarih Sipayung
Institut Teknologi Sumatera

9
Sustaining Coal Energy Generation Security by Utilizing Carbon Emission with Urea Production
Muhammad Rafiuddin, Rasyid Mahdavi A.N., Dito Ata’ul Momin Wicaksono
Instytut Teknologi Bandung

8
The Urgency of Ocean Renewable Energy for Marine Protected Areas in Indonesia
Noir Primadona Purba (Universitas Padjadjaran), Marine K. Martaeganda (Movement for The Ocean (MOCEAN), Ibrnu 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 Ghanii Fauzi, Bayu Dedi Prasetyo, Ilham Ardatu Putra
Politeknik Energi dan Mineral Akamigas
LEMGAS Research and Development Center of Oil and Gas Technology
<table>
<thead>
<tr>
<th>Rank</th>
<th>Title</th>
<th>Authors</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>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</td>
<td>Gifhar Rahman, Fauzan Raffi Miraj, Muhammad Daffa Akbar Fahrizky, Anggun Rehmawati, Nanda Febriyana</td>
<td>Diponegoro University</td>
</tr>
<tr>
<td>2</td>
<td>Identification of 3D Modeling of Subsurface Structures of a Geothermal System Using the Gravity Method of the Mount Lawu Area, Central Java</td>
<td>Feby Puspita Sari, Andini Restiana, Nabil Fiya</td>
<td>Syarif Hidayatullah State Islamic University</td>
</tr>
<tr>
<td>3</td>
<td>Integration of Clustering System and Joint Venture Business Model for CCUS Deployment: A Case Study in South Sumatra Region</td>
<td>Martinus Bhima Prajna Indrasuta, Adryan Samuel Hutagalung, Saeufil Ghofar Zamanie Putra, Radista Saga, Aurelia Anindita Risky</td>
<td>Institut Teknologi Bandung</td>
</tr>
<tr>
<td>4</td>
<td>Analysis of Characteristic of the Activated Carbon and Paraffin Wax-Based Gas Diffusion Electrode for Magnesium-Air Fuel Cell</td>
<td>Achmad Gunron, Khaironik Haryono, Budi Santosa Ferdiansjah</td>
<td>Universitas Gadjah Mada</td>
</tr>
<tr>
<td>5</td>
<td>Integrated Solar Energy Application System Development to Catalyze Public Participation Towards Bali Clean Energy Through Crowd-Based Business Models</td>
<td>Sadill Anfin, Al Hilal Firdaus S. A., Azarine Raina Erwita Putri</td>
<td>Institut Teknologi Bandung</td>
</tr>
</tbody>
</table>
Lomba Esai & Poster
HUT ke-6 PYC
Untuk Siswa SMA Sederajat
“INTEGRASI SEKTOR ENERGI DAN PERUBAHAN IKLIM”

PEMENANG LOMBA POSTER

**JUARA 5**
Pengembangan EBT
Sumber: Tenaga Sumber Tenaga
Energi (Biomassa dan Peluang Energi Baru)
Chandra Suryandito - SMAN 1 PURBALINGGA
Rp 1.500.000

**JUARA 4**
Save The Earth Start From Us
Sumber: Energi Baru & Perubahan Iklim
Michael Owon - SMK Pemersatu Harapan
Destiessa
Rp 1.750.000

**JUARA 3**
ARDIS-CC: Interaksi Antara Kom & Sosial
Terintegrasi Augmented Reality Sebagai Media
Edukasi Terkait Energi dan Perubahan Iklim Bagi
Generasi Z DI Indonesia
Dika Ali Kurniawan - SMA PDIPI 2 KARTEN
Rp 2.000.000

**JUARA 2**
Pemringgutan Konservasi & Optimalisasi
Sumber: Komuansi & Energi
Hegat Purwita - SMKN 11 Bandung
Rp 2.250.000
Lomba Esai & Poster
HUT ke-6 PYC
Untuk Siswa SMA Sederajat
"INTEGRASI SEKTOR ENERGI DAN PERUBAHAN IKLIM"

PEMENANG LOMBA POSTER

JUARA 1
AYO HEMAT ENERGI UNTUK SELAMATKAN BUMI
Lasmara Adi Nugraha - SMKN 1 PEMALANG
Rp2,500,000

JUARA FAVORIT: 293 LIKES
Smart Plaster and Producing Electricity
Mohammad Jiddan Labib & Niko Ramzy Wardhana
SMAN 1 Jepara
Rp500,000
Lomba Esai & Poster
HUT ke-6 PYC
Untuk Siswa SMA Sederajat

“INTEGRASI SEKTOR ENERGI DAN PERUBAHAN IKLIM”

PEMENANG LOMBA ESAI

5. BEL PROJ: BIOPLANT MENGGUNAKAN ENZIM LUCIFERASE DAN GREEN FLUORESCENT PROTEIN UNTUK MENGHABISIKAN CAHAYA HIJAU PADA TANAMAN SIRI REZEKI /Aglaonema sp./ SEBAGAI SUMBER ENERGI LISTRIK TERBARU, UKAN DI ERA SOCIETY 5.0

Rochmad Aroy Al Farhadi - SMK NU2 Kedungpring

Rp 1,500,000

4. Sistem Terintegrasi Multisumber EBT Untuk Meningkatkan Efisiensi Energi Listrik yang Berkelanjutan

Nedy Ursula Saraswati Herimbang - SMA Stella Duco 1 Yogyakarta

Rp 1,750,000

3. SMART CABIN PENDEKATAN SUHU KABIN MOBIL SEBAGAI PENGUATAN ENERGI PANAS BUMI INDONESIA MENG效益 ENERGI EBT 2025

Loweira Sella Octa, Yunita Aldi, & Fauzien Yanwardi - SMK Global Teknologi

Rp 2,000,000

2. Manajemen Energi Fossil yang Efisien dan Konservatif sebagai Upaya Penggunaan Kritis Energi

Calvin Sentosa - SMA Katolik St. Louis 1 Surabaya

Rp 2,250,000

1. MITIGASI RISIKO PERUBAHAN IKLIM MELALUI PROGRAM EARTH FRIENDLY SCHOOL

Muhammad Dzakwan Alfii & Kaylah Ziyadah Imara

SMA IT Nur Hidayah Sukoharjo

Rp 2,500,000
PYC Community (@pyccommunity on Instagram)

PYC Community is a part of Purnomo Yusgiantoro Center where we will share more about our journey as one community.

We have fun facts, competitions for children, a day in life, information about social and culture, behind the scenes, and more about PYC Team itself!

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Visit our Instagram:

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This set of two books tells Prof. Purnomo Yusgiantoro and his experience in one of the national strategic sectors, Energy and Mineral Resources (ESDM). Through this book, readers will be taken to a journey and see the intricacies of ESDM’s advancement, especially during the transition period of Reformation era.

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