

**ACADEMIC CORNER** 

**OUR PUBLICATION** 

**EVENT IN ENERGY SECTOR** 

**SOCIAL INITIATIVES** 

**UPCOMING EVENTS** 

**MORE FROM US** 



Filda C. Yusgiantoro was the moderator for Plenary Session 1 at the Indonesia International Hydrogen Summit (IIHS)

Purnomo Yusgiantoro Center | (19) (f) (18) (in) (19)



Greetings from Purnomo Yusgiantoro Center!

PYC recently celebrated its 8th anniversary on June 20, 2024, under the theme "Celebr8 PYC's Sustainable Journey" aiming to persistently contribute it's best to the nation and beyond without time constraints. We extend our appreciation and gratitude to all parties, both institutions and individuals, and the PYC team for their contributions and support throughout PYC journey over the past 8 years.

Looking ahead, we hold high hopes and aspirations for PYC. We aim to continue growing, innovating, and inspiring many. On this Anniversary, PYC inaugurates its new office space. With this new office, Purnomo Yusgiantoro Center endeavors to play an even greater role in fostering new innovations, conducting in-depth research, and implementing beneficial programs for society. Let us make this building a center for knowledge development that positively impacts our nation's progress.

Furthermore, PYC has successfully organized various activities in the second half of this year. We hosted events such as the Paper Competition and the PYC Anniversary Video Competition. We thank all participants for their involvement and congratulate the winners! We hope that through these competitions, participants have gained knowledge, confidence, and ambition to achieve their goals.

In conclusion, we wish everyone continued health and well-being.

Regards,

Filda Citra Yusgiantoro, Ph.D.

**The Opinion** 

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



#### Balancing Indonesia's Position on Energy Transition Towards The Global Agenda

Nadira Asrifa (Research Assisten, Purnomo Yusgiantoro Center), Vivid Amalia (Research Staff, Purnomo Yusgiantoro Center).

Indonesia has set ambitious targets and is committed to the energy transition, with one of them being through global collaboration and cooperation, especially in funding, investment, and technology transfer. However, international cooperation carries risks of interdependence and geopolitical tensions regarding energy security. Therefore, it is important for Indonesia to balance international cooperation with national interests in the energy transition, especially regarding funding for renewable energy projects.

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# Indonesia's New Presidential Leadership: A Vision for Sustainable Biofuel

Akhmad Hanan (Researcher, Purnomo Yusgiantoro Center), Ahmad Munawir (Researcher Staff, Purnomo Yusgiantoro Center).

Indonesia recently held general elections to choose the president and vice president as well as legislative members at the national, provincial, and district/city levels. Prabowo Subianto and Gibran Rakabuming Raka emerged as the president- and vice president-elect. The focus of their vision and mission were on sustainable development; emphasizing social and ecological justice; the use of renewable energy, especially sustainable biofuel; the development of a green economy; and climate change mitigation. In their biofuel program, they aim to make Indonesia a leading biodiesel producer in the world.

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**The Opinion** 

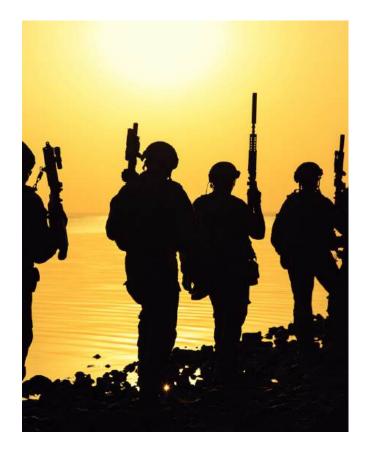
is a channel to assert various point of views related to topics in the energy and natural resources sector

# Nusantara's Dream: Fusing Energy Security with Smart Defense

Akhmad Hanan (Researcher, Purnomo Yusgiantoro Center), Ahmad Munawir (Researcher Staff, Purnomo Yusgiantoro Center).

Nusantara, Indonesia's future capital in East Kalimantan, is envisioned as a futuristic, sustainable, and secure metropolis. It is designed to reflect Indonesia's strategic vision and prioritize national security as a key component. The city aims to manage its energy resources efficiently, transitioning towards renewable energy with a goal of achieving net zero carbon emissions by 2045. Key strategies include enhancing energy security, integrating advanced defense technologies, and leveraging natural resources. Coordination among various government and private entities, along with community involvement, is essential to make these objectives realistic.

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#### **Academic** Corner

**Research Report** 

This section is a report of the results of our research study.



# Brief Report Vol. II: Enhancing The Strategic Role of Regional Governments in Indonesia's Energy Transition

#### PURNOMO YUSGIANTORO CENTER RESEARCH TEAM:

- Massita Ayu Cindy, S.T., M.T.
- Nadira Asrifa N, S.IP., M.E.
- Vivid Amalia Khusna, S.E.

addressing climate change uncertainty of conventional energy supplies, Indonesia emphasizes the importance transitioning from fossil fuels to renewable energy sources. Although this is a national priority, the role of local governments is limited by lack of decentralization and supportive regulations. This report explores the strategic role of local governments in accelerating the energy transition. providina recommendations The overcome these challenges. recommendations include enhancing human resource capacity, improving inter-agency coordination. developing inclusive strategies, integrating renewable energy plans into regional development, enacting policies that support investment, and utilizing advanced technologies.

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#### **Academic** Corner

**Research Report** 

This section is a report of the results of our research study.



# PYC Releases Final Report of PYC IEC 2023: Encouraging Collaboration for an Inclusive Energy Roadmap

#### PURNOMO YUSGIANTORO CENTER RESEARCH TEAM:

- Massita Ayu Cindy, S.T., M.T.
- Akhmad Hanan, S.Kel., M.Si (Han).
- Felicia Grace R. U, S.E.
- Michael Suryaprawira, S.T,. M.T.
- Mayora Bunga Swastika, S.IP., M.Si
- Nadira Asrifa N, S.IP., M.E.
- Vivid Amalia Khusna, S.E.
- Hidayatul Mustafidah Rochmawati, S.T.
- Ahmad Munawir Siregar, S.Si., M.Han.

The Purnomo Yusgiantoro Center (PYC) recently released the final report from PYC IEC 2023 with the theme "Collaboration in Action for Inclusive Energy Roadmap." The report highlighted the challenges and opportunities in the energy transition in ASEAN, particularly in Indonesia, from fossil fuels to renewable energy (RE). The PYC research team emphasized the need for cross-sectoral collaboration and stakeholder to accelerate RE engagement technology adaptation and overcome financial barriers. This multi stakeholder commitment was expected to create an inclusive, fair, and sustainable energy system. The report's release also marked PYC's 8th anniversary on 20 June 2024, showcasing PYC's ongoing dedication to the future of energy.

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**Indonesian Journal of Energy** 

It is a multidisciplinary journal focused on energy research, aiming to provide authoritative information through analyses, reviews, andevaluations.



Natuna is Indonesia's frontier and most northern region, within Indonesia's Exclusive Economic Zone (EEZ). In 2017, Indonesia renamed the northern reaches of its EEZ in the South China Sea as the North Natuna Sea, part of the Natuna Sea. It is rich in oil and gas resources, making it one of Indonesia's largest reserves. addition, Natuna also has great fisheries potential and outstanding natural beauty. The Natuna Sea is very strategic, especially in sea traffic and international trade, due proximity to the Strait of Malacca, one of Indonesia's six vital choke points. Geopolitically, Natuna has an important strategic position in Southeast Asia.

Check out this paper titled "Security–Energy Nexus in Indonesia's Border: The Case of Natuna" by Purnomo Yusgiantoro, Utjok WR Siagian, Agus HS Reksoprodjo, Debby RA Gustin, and Novena Damar Asri from Bandung Institute of Technology and Indonesia Defense University.

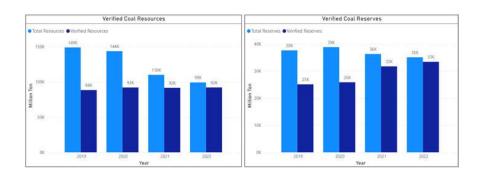
We are also accepting manuscripts related to the energy and mineral resources sector to be published in our journal. Please read the submission and author guidelines on our website at ije-pyc.org

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**Data Center** 

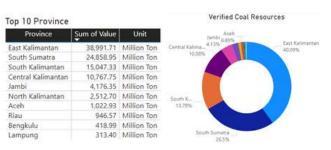
PYC understands the importance of reliable data in the energy sector.

#### INDONESIA'S COAL RESOURCES AND RESERVES



"INDONESIA'S ENERGY SUPPLY" dataset provides a summary of the coal resources and reserves in Indonesia. The Indonesian coal industry remains robust, with significant contributions from the top 10 provinces. The substantial resources and reserves in these regions underscore Indonesia's crucial role in the global coal market. The province with the largest coal resources is East Kalimantan, accounting for 40.09% of the total in Indonesia. This is followed by South Sumatra with 26.5% and South Kalimantan with 13.78%.





The distribution of coal resources across these provinces highlights the geographic diversity of Indonesia's coal reserves, ensuring a steady supply for both domestic use and export. Looking ahead, sustainable practices and technological advancements will be crucial in responsibly harnessing these resources. Effective management and innovation in technology will ensure that the industry remains sustainable and continues to provide maximum economic benefits for Indonesia.

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#### Our **Publication**

**Energy Drink** 

is a podcast by PYC that brings together experts from the energy sector for casual discussions on the hottest topics.



#### ENERGY DRINK by PYC #31 Menilik Urgensi Reformasi Subsidi Energi di Indonesia Ft. Lucky Lontoh

Hallo, Jagoan Energi!

Energy subsidies in Indonesia are one of the vital policy instruments to ensure affordable energy access and support economic growth. On the other hand, the cost of energy subsidies not only burdens the national budget balance, but also has social and environmental impacts. In facing this issue, the Indonesian government must consider steps to reform energy subsidies. A proper strategy is needed to minimize the potential negative impacts of energy subsidies while still considering the welfare of the people.

In this podcast episode, Massita Ayu Cindy (Researcher at Purnomo Yusgiantoro Center) and Lucky Lontoh (Associate and Country Coordinator at IISD) will discuss the Urgency of Energy Subsidies in Indonesia.



Purnomo Yusgiantoro Center | ((a) (f) ((a) (in) (c)



Awareness of climate change and energy needs in Indonesia, which leads to energy transformation towards environmentally friendly technology and energy sources, has become a developing focus among universities. This is demonstrated through the annual Oil and Gas Intellectual Parade 2024 (OGIP 2024) organized by the Petroleum Engineering program at UPNVY on 19-20 April 2024 at the UPNVY Campus. With the theme "Developing Innovative Technology and Enhanced Strategies for Further Sustainable Petroleum Energy Industries in the Net Zero Emission Era," this program is a collaboration with the Purnomo Yusgiantoro Center. The presence of Massita Ayu Cindy as a jury from PYC brings a special pride, where the innovative works of the participants are to be considered more deeply in accordance with current and future conditions. This competition is expected to continue to produce new innovations supporting the sustainability of the petroleum industry towards net zero emission.



**Captive Power Plant Study: FGD 1** 

The Purnomo Yusgiantoro Center, through its Chairperson, Filda C. Yusgiantoro, collaborates with the Global Green Growth Institute (GGGI), assisted the Ministry of National Development Planning (PPN)/Bappenas in conducting a study on the decarbonization of captive power plants in Indonesia's smelter industry as a reference for the National Medium-Term Development Plan (RPJMN) 2025–2029.

The first FGD "Utilization of Clean Energy in the Smelter Industry" was held on 22 April 2024. This FGD aimed to collect data related to off-grid power plants in the smelter industry, the challenges and opportunities of smelter operations as well as the mapping of renewable energy potential and transmission plans. The FGD was attended by representatives from the Coordinating Ministry for Maritime and Investment Affairs (Kemenkomarves), the Ministry of Energy and Mineral Resources (KESDM), the Indonesian Chamber of Commerce and Industry (KADIN), PT PLN, and various mineral smelter industries in Indonesia.



#### The Ensight: "No One Left Behind: GESI dalam Transisi Energi"

The Purnomo Yusgiantoro Center (PYC) held The Ensight April Edition "No One Left Behind: GESI in Energy Transition," at the PYC's office located at Jl. Wijaya IX, South Jakarta on 27 April 2024.



The event began with a warm welcome address from the Chairperson of PYC, Filda C. Yusgiantoro, followed by sessions featuring presentations from distinguished speakers: Chandra Sugarda, a senior GESI expert in Indonesia; Tri Mumpuni Wiyatno, Chair of the IBEKA Foundation; and Noormaya Muchlis, Director and Founder of Women in Mining and Energy (WIME) Indonesia. The event was concluded with remarks from Luky A. Yusgiantoro, the member of the Governing Board of PYC.



The Chairperson of PYC, Filda C. Yusgiantoro, as part of the policy team, in collaboration expert with GGGI. the assisted Bappenas in conducting a study on the decarbonization of captive Indonesia's power plants in smelter industry as a reference for the RPJMN 2025-2029. To support this study, a field visit was conducted from 28-30 April 2024.



to the copper smelters owned by PT Freeport and PT Smelting in Gresik, East Java, which are powered by PLN and off-grid combined-cycle power plants. This visit aimed to collect data from smelters using off-grid power plants, facilitate knowledge exchange between the expert team and smelter representatives, and verify the accuracy of previously collected data to ensure that it reflects the actual conditions.



The term "Smart Defense" has become a hot topic amid preparations for Indonesia's capital city relocation to East Kalimantan. The need for comprehensive studies on the situation, conditions, and potential of the IKN area has garnered attention from various stakeholders. The National Research and Innovation Agency (BRIN) contributes to developing studies related to the smart defense concept to be implemented in IKN. By collaborating with Purnomo Yusgiantoro as a resource person in a Focus Group Discussion, in-depth discussions on energy potential and recommendations for developing smart defense criteria in IKN were held. These insights are expected to provide valuable input for future studies and the development of IKN.



#### Captive Power Plant Study: Site Visit to Nickel Smelters in Pomalaa

The Chairperson of PYC, Filda C. Yusgiantoro, as part of the policy expert team, in collaboration with the GGGI, assisted Bappenas in conducting a study on the decarbonization of captive power plants in Indonesia's smelter industry as a reference for the RPJMN 2025–2029.



To support this study, a field visit was conducted from 6-9 May 2024, to the nickel smelter owned by PT Antam in Pomalaa, Southeast Sulawesi, which uses an off-grid coal-fired and diesel power plant. This visit aimed to collect data from smelters using off-grid power plants, facilitate knowledge exchange between the expert team and smelter representatives, and verify the accuracy of previously collected data to ensure it reflects the actual conditions.



Purnomo Yusgiantoro Center (PYC) had the opportunity to be one of the speakers in the series of focus group discussions (FGD) organized by the Secretary General of the House of Representatives (DPR) of the Republic of Indonesia. The FGD was held on 7 May 2024, in Bogor, West Java. At this event, Dr. Abdul Muin, a senior fellow at PYC, represented the chairperson of PYC to present material on oil and gas lifting. The material presented were price forecasts, influencing factors, and policy recommendations for dealing with crude oil fluctuations in 2025. Participants in this FGD were analysts from the Center for Budget Analysis and State Financial Accountability. The representatives from SKK Migas also attended the event as a speaker. The FGD aimed to provide insights and enhance the understanding of DPR RI officials and staff in performing their budgetary and supervisory functions.



The Chairperson of PYC, Filda C. Yusgiantoro, as part of the policy expert team, in collaboration with the GGGI, assisted Bappenas in conducting a study on the decarbonization of captive power plants in Indonesia's smelter industry as a reference for the RPJMN 2025–2029.

The second FGD "Integration of Renewable Energy and Smelters: Challenges and Opportunities" was held on 31 May 2024. This FGD aimed to present interim data findings and analysis in the execution of this study, discuss the challenges and opportunities of integrating smelters with renewable energy power plants, and discuss existing and potential policies for integrating renewable energy with smelters. The FGD was attended by representatives from the Ministry of Energy and Mineral Resources (KESDM), the Ministry of Industry (Kemenperin), PT PLN, and PT Vale Indonesia.





On 12 June 2024, LPEM FEB UI held an FGD on Economic Feasibility and Renewable featuring Energy, Purnomo Yusgiantoro the as speaker. The main topic was the urgency of resilient, inclusive, and sustainable national renewable Purnomo Yusqiantoro energy. addressed the global energy situation climate change, and Indonesia's position in this context, issues of dependency on fossil fuels, price fluctuations. and environmental impacts. He also highlighted the economic benefits of renewable energy, job creation opportunities, and reducing dependency on energy imports. The was enthusiastically presentation received participants, by the sparking in-depth discussions.

# "Enabling Policy and Regulatory Imperatives for Deployment of Low-Carbon Hydrogen"



**Indonesia International Hydrogen Summit 2024** 

Filda C. Yusgiantoro was the moderator for Plenary Session 1 at the Indonesia International Hydrogen Summit (IIHS): Enabling Policy and Regulatory Imperatives for the Development of Low Carbon Hydrogen, held at Hotel Mulia Senayan, Jakarta. This session discussed the policies needed to support the development of hydrogen in Indonesia from government, industry, and global perspectives.

The speakers participating in Plenary Session 1 were Satya Widya Yudha as the Energy Expert and Former Member of DEN, Andriah Feby Misna as the Director of Various New and Renewable Energy, KESDM, John Eusebius Iwan Anis as the CEO of Pertamina New and Renewable Energy, and Laurent Antoni as the Executive Director International Partnership for Hydrogen and Fuel Cells in the Economy.



**Panel Discussion Anniversary PT Evonik Indonesia** 

Filda C. Yusgiantoro was invited to be the speaker in the Panel Discussion Session during the 20th years Anniversary of PT Evonik Indonesia on 26 June 2024. PT Evonik is a chemical specialty company, headquartered in Germany. The event was attended by Evonik's customers. The session theme was "Towards Sustainable Growth of Indonesia: Balancing the Growing Economy & Climate Ambition in Indonesia". In this session, Filda talked about the importance of innovation and technology for energy transition initiatives and PYC roles in supporting sustainable development especially in the industry, along with other speakers from Evonik, Unilever, and McKinsey.



The National Research and Innovation Agency (BRIN) and the Institutional Institute for Sustainable Development (IISD) invited the Purnomo Yusgiantoro Center (PYC) to discuss the mainstreaming of GESI (Gender Equality and Social Inclusion). Nadira Asrifa and Vivid Amalia, PYC's research team representing PYC at the event, presented several PYC studies related to GESI issues and findings from field visits concerning energy transition, particularly at the household level in provinces. The FGD took place last April at the BRIN Building. This discussion aimed to explore the impact of the energy transition from a GESI perspective. It delved into the existing conditions of the clean energy transition for cooking; focusing on aspects, such as participation, convenience, safety, cleanliness, practicality, affordability, health, and family welfare.



## Purnomo Yusgiantoro Center (PYC) Brings Kartini's Spirit Through Social Service

To commemorate Kartini Day, the Purnomo Yusgiantoro Center (PYC) held a social service event by donating basic necessities and daily supplies to families in need around South Jakarta. The event took place at the PYC office at Jl. Wijaya IX. The activity was attended by the PYC Governing Board member, Lis Purnomo Yusgiantoro; PYC General Secretary, Amelia Yusgiantoro; and a representative of the Healthy Bones Society (PERWATUSI), Dr. Ade Jeanne D.L. Tobing, Sp. KO, on 22 April 2024.

This social service was part of a tribute to the Indonesian national hero, Raden Ajeng Kartini. The initiative aimed to support women's empowerment and community welfare, in line with the values promoted by Kartini.

During the social service event, PYC conducted a series of activities involving female veterans and women workers, who were from the Jakarta Veterans Legion, Transjakarta Female Bus Drivers, Female PPSU Workers, and Blue Bird Taxi Female Drivers.



# The signing of the MoU between PYC and the Archdiocese of Semarang

The Purnomo Yusgiantoro Center has signed a Memorandum of Understanding (MoU) with the Archdiocese of Semarang regarding the development of the Gua Maria Sendangsono at Hotel Padma Semarang on 12 June 2024.

The MoU was signed by Filda C. Yusgiantoro, the Chairperson of Purnomo Yusgiantoro Center, and Monsignor Robertus Rubiyatmoko, the Bishop of the Archdiocese of Semarang.

The Gua Maria Sendangsono is planned to be equipped with new supporting facilities, including a Pastoral Building, an Auditorium Building, a Pre Function Hall, and access roads.

Witnesses to the MoU signing included Dato Low Tuck Kwong from Bayan Resources, Father Nugroho Widiyono, SJ, representatives from PYC, representatives from the Archdiocese of Semarang, and other invitees.



## **PYC Paper Competition 2024**

On 19 June 2024, the Purnomo Yusgiantoro Center (PYC) held the Final Judging of PYC Paper Competition 2024 in the scope of the 8th anniversary of PYC, which was held at the PYC office, Jl. Wijaya IX No. 12. With a full consideration process, 10 finalists were finally selected and they had the opportunity to present their papers in front of the judges. The juries of this 2024 Paper Competition were Dr. Lam Man Kee, Dr. Akbar Swandaru, and Dr. Niken Prilandita. The paper titled What Drives Inclusive Green Growth in Indonesian Regions? Unraveling <u>Determinants and Regional Disparities</u> authored by Rifqi Aqil Asyrof and Muhammad Rizaldi was selected as the 1st winner of the Paper Competition 2024 announced at the main event of the 8th anniversary of PYC at the Shangri-La Hotel, Jakarta.



The Inauguration Ceremony of the Purnomo Yusgiantoro Center Building was held concurrently with the anniversary of the Purnomo Yusgiantoro Center at Jl. Bulungan No. 22, South Jakarta, on 16 June 2024.

The event commenced with a building blessing mass, followed by a ribbon-cutting ceremony and the inscription signing by Purnomo Yusgiantoro, the Founder of the Purnomo Yusgiantoro Center, and concluded with a little feast.

This new building will serve as the office and research center of the Purnomo Yusgiantoro Center in the fields of energy, national resilience, and social initiatives as contributions to the Indonesian nation.



#### Signing of MoU between Undip and PYC

On 13 June 2024, Purnomo Yusgiantoro Center (PYC), Diponegoro University (Undip), and Dato' Dr. Low Tuck Kwong jointly signed a memorandum of understanding regarding the development of tri dharma perguruan tinggi at Diponegoro University, Semarang, Central Java. The implementation of this development is a donation from PYC and Dato' Dr. Low Tuck Kwong in the form of a 5 floors building designated as a Civil Engineering Postgraduate Building, Faculty of Engineering, Diponegoro University. This collaboration was hoped to enable improvement to the quality of human resources as well as to develop educational facilities and infrastructure.



The Purnomo Yusgiantoro Center (PYC), a non-profit organization focused on research and the preservation of local culture, held its 8th anniversary celebration with the theme "Celebr8 PYC's Sustainable Journey," at the Shangri-La Hotel, Jakarta, on 20 June 2024.

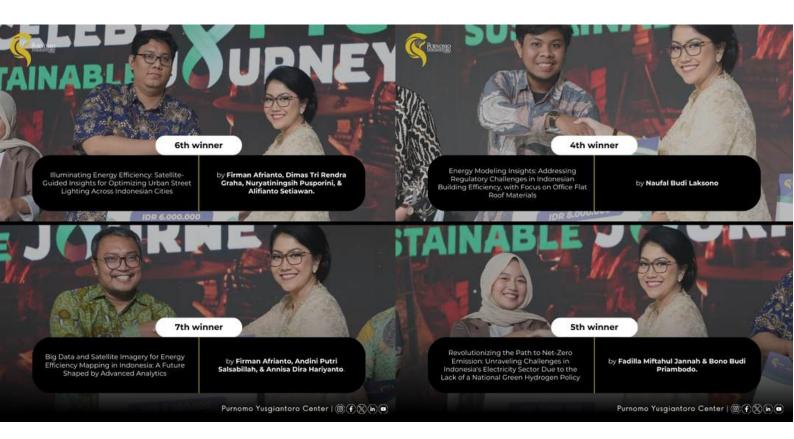
At its 8th anniversary, PYC launched a book titled Pengabdian Purnomo Yusgiantoro dalam Pemerintahan Enam Presiden (Purnomo Yusgiantoro's Service in the Government of Six Presidents), authored by the children of Purnomo Yusgiantoro. The book was about Purnomo Yusgiantoro's career journey in his service to the government under six different presidents of the Republic of Indonesia.

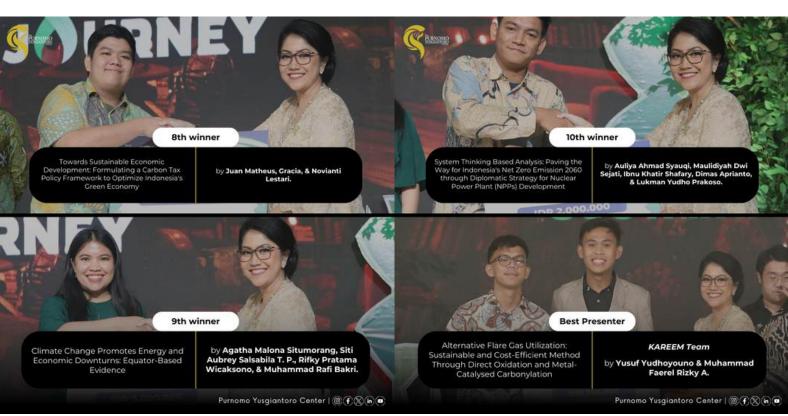
Additionally, the 8th PYC anniversary was celebrated by giving appreciation to stakeholders, who have made contributions in various forms to PYC, through the PYC Awards 2024. The recipients of the 2024 PYC Awards are: Danny Quah as the Dean of the Lee Kuan Yew School of Public Policy Singapore, Raden Sukhyar as the Senior Fellow in the Mineral and Coal Sector, and Rachmat Sudibyo as the Senior Fellow in the Oil and Gas Sector. These three individuals have provided significant insights for the development of PYC over the years.





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# PRO MO TION BOOK

"Politik Energi: Teori dan Aplikasi"



