



E-NEWSLETTER

PURNOMO YUSGiantoro CENTER



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PYC E-Newsletter | 4th Quarter: October–December 2023

The background is a photograph of a glass door or window. On the left, there is a green plant. The glass has a logo at the top center that says 'The PURNOMO YUSGIANTORO CENTER' with a stylized bird icon. Below the logo, the text 'RAHMAT TUHAN YANG MAHA ESA' and 'PURNOMO YUSGIANTORO CENTER' is visible. At the bottom of the glass, there is a signature and the text 'Prof. PURNOMO YUSGIANTORO, Jr., M.Sc., M.P., Ph.D.'. The main text of the message is overlaid on this background.

A Message From

THE CHAIRPERSON

Greetings from Purnomo Yusgiantoro Center!

We hope that you are all in good health as we celebrate this fresh and hopeful beginning. This new year brings new energy, and we are thrilled to harness this energy to strengthen our collaborations and partnerships.

This year has become a fresh start for PYC, started with a visit to the Solar Panel Pilot Research Project in Gumelar Village, Banyumas, Central Java. Besides that, one of the PYC researchers has completed the "Southeast Asia Just Energy Transition Partnership Fellowship Programme", which was organized by the Climateworks Centre, Monash University, and funded by the Australian Government.

We have published IJE Vol. 7 No. 1 (2024): Indonesian Journal of Energy. The journal covers research with a strong focus on energy security, energy economics, energy analysis, energy modeling, integrated energy systems, energy planning, and environmental and energy management. The journal also welcomes papers on related topics such as energy conservation, energy efficiency, energy innovation, fuel and energy technology, biomass and bioenergy, new and renewable energy, energy storage, energy finance, energy geopolitics, as well as energy law and policy. If you are interested in publishing your article related to the energy and mineral resources sector, you could check further about the guidelines on our IJE website (ije-pyc.org).

Lastly, 2024 is a year full of promises and we believe that with positive energy and strong collaboration, we can achieve even greater heights. We are deeply grateful for your support and look forward to continuing our collaboration in the coming year.

We wish you all the best!

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



RE Policy Consistency, Key to Successful Carbon Trading

Felicia Grace (Researcher, Purnomo Yusgiantoro Center),
Michael Suryaprawira (Researcher, Purnomo Yusgiantoro Center).

Indonesia launched IDXCarbon in 26 September 2023 under the Regulation No. 14/2023 by OJK, marking a significant step in its carbon pricing efforts. The trade of carbon quotas and emission reduction certification encourage industries to begin transitioning to sustainable energy sources. However, the success of this initiative depends on the consistency of national renewable energy (RE) policies. A solid legal foundation, such as RE Bill and a transparent revenue allocation will be essential. Aligning carbon trading with a strong RE policy framework is key to achieving Indonesia's ambitious sustainability targets.

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Developing Food and Energy Security

Luky Yusgiantoro (Governing Board Member, Purnomo Yusgiantoro Center),
Akhmad Hanan (Researcher, Purnomo Yusgiantoro Center).

During COP28 in Dubai on 1 December 2023, President Joko Widodo highlighted the potential of agricultural and plantation products as clean energy sources, favoring biofuels over fossil fuels. Indonesia's 2023 B35 biodiesel program produced 12.2 million KL, with the composition of 35% from palm oil and 65% from diesel. Joko Widodo urged a global collaboration and increase investment in agriculture for a sustainable food and energy security. Civil society organizations urged 2024 presidential candidates to prioritize low-emission energy transition, accelerate bioenergy development, and ensure food security.

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Why the Motorcycle Conversion Program is not Appealing

Massita Ayu Cindy (Researcher, Purnomo Yusgiantoro Center),
Michael Suryaprawira (Researcher, Purnomo Yusgiantoro Center)

The MEMR's program to convert ICE motorcycles to electric faces challenges like unclear subsidy procedures and misconceptions. Reluctancy from garage owners, due to minimal incentives, further impedes the progress. Addressing these issues with clear communication, fiscal incentives, and collaboration with financial institutions can enhance the program's effectiveness, promoting wider adoption of electric vehicles for a sustainable future.

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Indonesia's Clean Energy Targets National Aspirations Versus Regional Realities

Nadira Asrifa (Researcher, Purnomo Yusgiantoro Center)

The energy transition in Indonesia encounters intricate challenges at the regional level, marked by issues pertaining to autonomy, infrastructure deficiencies, and fiscal constraints. State-owned electricity companies and local governance structures wield significant influence over energy policy dynamics. To expedite this transition, seamless coordination between central and local administrations, private enterprises, and non-governmental entities is imperative. Ensuring policy alignment, bolstering institutional capacities, and harnessing regional financial resources are pivotal in accelerating progress toward renewable energy objectives.

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PURNOMO YUSGIANTORO CENTER RESEARCH TEAM:

- Akhmad Hanan, S.Kel., M.Si. (Han).
- Mayora Bunga Swastika, S.IP., M.Si.
- Hidayatul Mustafidah Rohmawati, S.T.

Effective Downstream Policy Strategies for Oil, Gas, And Mining Sub-Sectors in Indonesia

The PYC research team, comprising of Akhmad Hanan, Mayora Bunga Swastika, and Hidayatul Mustafidah Rohmawati, had finalized a brief report on "Effective Downstream Policy Strategies for Oil, Gas, And Mining Sub-Sectors in Indonesia". This report evaluated downstreaming stages using the PESTEL methodology and trickle-down effects principle. It emphasized the focus of Indonesia on optimizing natural resource utilization through downstreaming policies. Recommendations include continuing downstreaming in oil, gas, and mining sub-sectors to reach end-user products and promoting the use of local content throughout the process.

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The Indonesia Journal of Energy Vol. 7 No.1 (February 2024) has been published with five manuscripts in the journal.

The manuscripts are:

- Security–Energy Nexus in Indonesia’s Border: The Case of Natuna by Purnomo Yusgiantoro, Utjok W. R. Siagian, Agus H. S. Reksoprodjo, Debby R. A. Gustin and Novena D. Asri.
- Rethinking Energy Security in Indonesia from a Net Zero Perspective by Ayu P. Muyasyaroh.
- Potential Development of Unconventional Oil and Gas Resources in Indonesia: Key Challenges and Future Prospects by Rifqi F. Maulana and Uray K. Ranaputri.
- Estimations of the Geothermal Energy Potential in The Mount Anak Krakatau Region Based on Derivative Analysis and 3D Model of Gravitational Satellite Data by Nanda R. Permana and Belista Gunawan.
- Strategic Implementation of Nationally Determined Contributions for Waste-to-Energy Utilization in Indonesia: A Regulatory Review by Valeria E. S. Paliling and Alfiyah N. I. Hamzah.

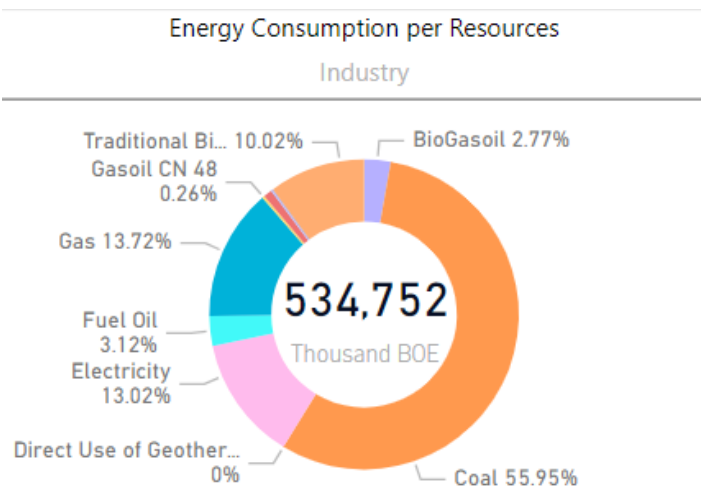
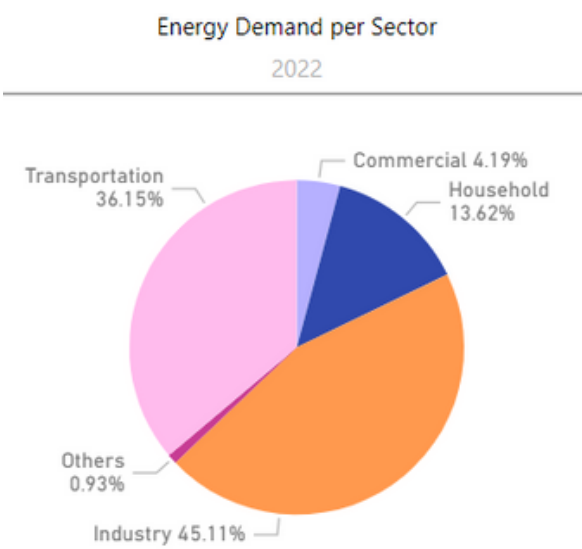
Dive into the latest insights and research on energy in Indonesia. 💡

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INDONESIA'S ENERGY DEMAND BY SECTOR

Indonesia's Energy Demand by Sector encapsulated the diversified energy requirements across industries, households, and infrastructure within the nation. This dynamic landscape reflected the intricate balance between industrial growth, household needs, commercial, and transportation activities, driving the demand for various energy sources, such as oil, natural gas, coal, renewable resources, and electricity.

Energy consumption in Indonesia is divided into several sectors; industrial, transportation, commercial, household and other sectors. In 2022, the industrial sector is the sector with the largest energy consumption in Indonesia, with 534,752 thousand BOE and a total percentage of 55.95% of the national energy consumption.



In the industrial sector, the produced energy came from several resources, such as coal, geothermal, oil, electricity, gas, and others. Coal is the largest contributor to energy consumption in the industrial sector. The total energy generated from coal is 299,191 thousand BOE with 55.95% of the total resources used in the industrial sector.

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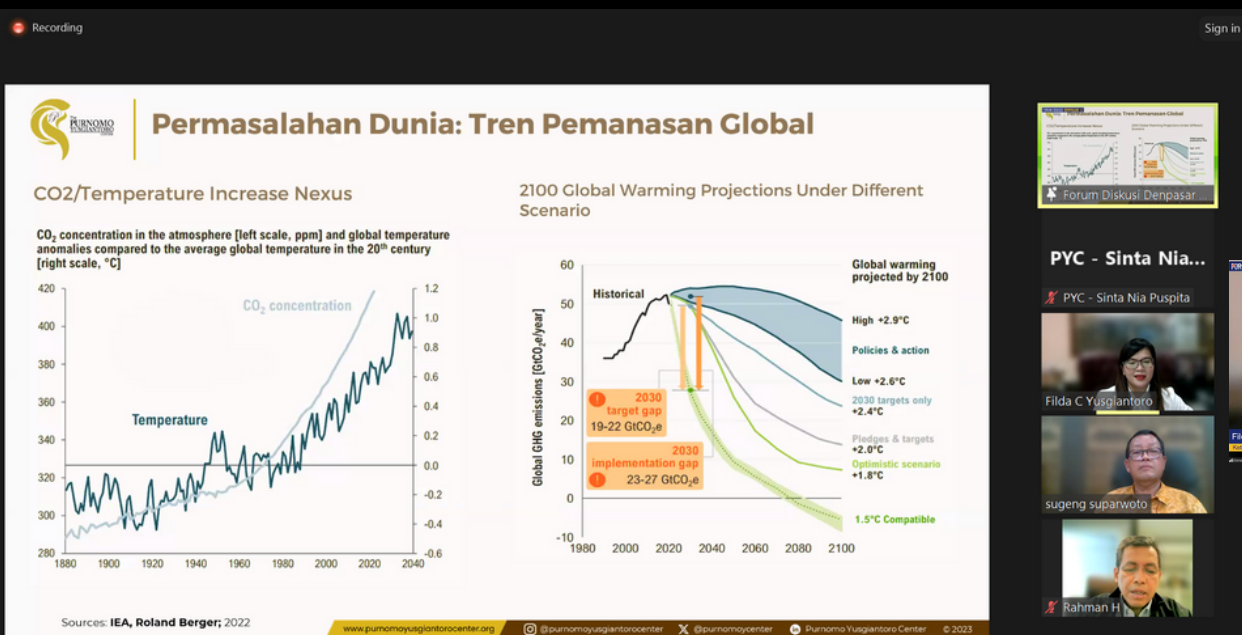


Public Lecture on Professional Ethics at Telkom University by Prof. Purnomo Yusgiantoro

In a recent lecture at Telkom University, the founder of PYC, Prof. Purnomo Yusgiantoro delivered an inspiring talk to Electrical Engineering students. He discussed the critical role of technology and innovation in enhancing societal well-being. Purnomo highlighted the importance of Artificial Intelligence (AI) in the energy and defense sectors.



Drawing from his extensive government career experience, especially in these sectors, he provided real-life examples, such as the advanced AI integration in F-16 fighter jet technology. Purnomo emphasized that not just technological advancements but also the significance of education in boosting the national innovation index. This lecture, concluded with an inspiring message, surely enlightened the Electrical Engineering students at Telkom University.



Chairperson of PYC, Filda C. Yusgiantoro, Ph.D. Served as a Speaker in Denpasar 12 Discussion Forum

Chairperson of PYC, Filda C. Yusgiantoro, Ph.D, presented the material on the Governance of Indonesia's Energy Resilience Towards Indonesia Emas 2045 in the Denpasar 12 Discussion Forum held online via Zoom meeting on 17 January 2024. This discussion aimed to enhance the governance of Indonesia's energy resilience towards achieving the vision of Indonesia Emas 2045.

Filda stated that Indonesia will see an increase in capital, both in terms of resources and manpower. Indonesia is heading towards number 4 in the level of global economic ranking. This needs to be driven by the commitment of all stakeholders, as well as good governance of Indonesia's Energy Resilience; involving innovation, energy democratization, and the enhancement of human resources quality in the energy sector, which need to be prioritized towards achieving Indonesia Emas 2045.



Chairperson of PYC, Filda C. Yusgiantoro, Ph.D, as a Speaker at PT Pertamina Gas Management Retreat 2024

Chairperson of PYC, Filda C. Yusgiantoro, Ph.D, was a speaker at the PT Pertamina Gas Management Retreat 2024 held at Mason Pine Hotel Padalarang on 18 January 2024. In this event, Filda delivered a presentation on economic and industrial outlook.

In her presentation, Filda presented the economic growth, as well as current and future opportunities and challenges in the energy industry.



Purnomo Yusgiantoro Center Organizes Focus Group Discussion Energy Reforms

The Purnomo Yusgiantoro Center (PYC) organized a series of Focus Group Discussions (FGD) with Heads of Energy and Mineral Resources Services (ESDM) from various provinces. The theme, "Regional Strategic Role in Implementing Energy Reform in Indonesia to Enhance Economic Resilience," was inaugurated by the founder of PYC, Prof. Purnomo Yusgiantoro.



Purnomo Yusgiantoro
(Founder of Purnomo Yusgiantoro Center)

Among the key speakers were government officials and industry experts, addressing the regional energy development. Participants coming from multiple provinces, highlighted the regional engagement in energy initiatives. The chairperson of PYC, Filda C. Yusgiantoro, Ph.D, commended Bali's solar power regulations as a model for regional energy innovation. She stressed on the importance of accelerating energy source development across regions and advocated for more workshops to maintain existing solar infrastructure.

r, Januari 2024



Review of the Solar Panel Pilot Project Collaboration between PYC and BCI in Gumelar

Chairperson of PYC, Filda C. Yusgiantoro, Ph.D, visited the Solar Panel Pilot Project PYC x BCI research in Gumelar Village, Banyumas, Central Java. During the visit, Filda and the PYC research team visited the homes of participating residents in this research on 6 February 2024. Gumelar District is in Banyumas Regency, Central Java, with the landscape dominated by mountains, winding small roads, natural rivers, rice fields, and forests.



This district is home to 1.8 million residents, relying on agriculture and livestock as their main livelihood. The mountainous location, surrounded by forests, often leads to power outages during the rainy season. Fallen trees, landslides, and disturbances from wild animals are the three main reasons why the residents of Gumelar District have to endure days with electrical disruptions, sometimes lasting for several hours before being addressed by the National Electricity Company (PLN). Solar panels in these homes provide benefits for the residents in their daily activities.



Southeast Asia Just Energy Transition Fellowship Programme

Felicia Grace, a researcher at PYC, has completed the "Southeast Asia Just Energy Transition Partnership Fellowship Programme", which took place from 26 February-8 March 2024 in Melbourne, Australia. This fellowship program was organized by the Climateworks Centre, Monash University, and funded by the Australian Government.

The program served as a platform for capacity building and discussions on mechanisms for a just transition to address the impacts of energy transition in high-carbon intensity sectors. It was attended by government representatives, labor unions, think tanks, and researchers from Indonesia and Vietnam. Activities included presentations, discussions, and field visits focusing on the situations in Australia and Southeast Asia.



RESEARCH FIELD TRIP TO WEST KALIMANTAN

In a series of field visits in West Kalimantan, the PYC research team led by Massita Ayu Cindy (Research Coordinator) set out to explore the potentials and challenges in the energy sector of the region. On 26 February 2024 at the Department of Industry, Trade, and Energy of West Kalimantan, the team met with the energy department and visited PT PLN to assess energy potential and the electrical power system. The following day on 27 February 2024, they examined two power plants in West Kalimantan; PLTU Kalbar 1 and PLTU Bengkayang, highlighting on their contributions to electricity supply and co-firing innovations. Finally, on 28 February 2024, the team visited the Border Crossing Post (PLBN) Aruk, discussing the impact of infrastructure on the surrounding community and challenges in electricity provision. These regional visits represented a crucial step in achieving a sustainable energy transition.



Dr. Evita Legowo as Speaker in The Indonesia Data and Economic Conference (IDE) Katadata 2024



Evita H. Legowo,
(Representative from Purnomo Yusgiantoro Center)

Dr. Evita H. Legowo, Representative from PYC, took part as a speaker in the Indonesia Data and Economic Conference (IDE), an annual event presented by Katadata on 5 March 2024, at the Kempinski Hotel. During the conference, Evita shared her insight on the challenges and opportunities in the energy transition towards a more sustainable energy sources. Evita highlighted the potential for Indonesia to become a strategic supplier by embracing renewable energy sources. Evita also stated that geothermal heat and bioenergy are potential energy sources for electricity generation in Indonesia, especially during the energy transition period.



RESEARCH FIELD TRIP TO BATAM, RIAU ISLANDS

The PYC team embarked on a research trip to Batam, Riau Islands, where they converse with representatives from PT PLN Batam and Batam Authority (Badan Pengusahaan Batam) to explore renewable energy opportunities. Discussions with PLN Batam revolved around operational aspects and challenges, while the discussion with BP Batam delved into industrial investments for energy transition. The team also visited Pemping Island, revealing local energy challenges such as limited electricity access and high fuel costs, affecting community productivity. Furthermore, visits to Batam's Duriangkang and Trembesi reservoirs highlighted their role in future energy production for Batam's Renewable Energy Hub. This collaboration is aimed to enhance renewable energy infrastructure, fostering Batam's sustainable energy development.



AAJI Annual Golf Gathering 2024

The Indonesian Jesuit Alumni Association (AAJI) held another Alumni Friendship Golf tournament 2024 at Modern Golf & Country Club Tangerang City, Banten on 22 February 2024. The participants of this tournament would compete for the trophy of Purnomo Yusgiantoro. With the spirit of men and women for and with others, this tournament was held to support vocational education by providing scholarships to prospective students, to continue their studies. AAJI's Alumni Friendship Golf Tournament 2024 aimed to establish a bond of friendship and a moment to gather potential alumni of Jesuit schools.



Inauguration of the Stations of the Cross Diorama at St. Stefanus Cilandak Church

Archbishop Ignatius Kardinal Suharyo inaugurated Stations of the Cross Diorama at St. Stefanus Catholic Church in Cilandak, South Jakarta, on 3 March 2024. The inauguration began with the Sunday Mass and continued on with the signing of the inscription by the Archbishop and Prof. Purnomo Yusgiantoro, witnessed by Father Agustinus Kelik Pribadi, SCJ, Head of Priest of St. Stefanus Cilandak.

After the Mass, in a private function, Purnomo Yusgiantoro Center gave donations to several foundations: Bhakti Luhur Foundation, Sinar Pelangi Foundation, Atmabrata Foundation, and the Convent House of the Congress of Priests of the Sacred Heart of Jesus (SCJ), Superioirat SCJ Jakarta Region.

GALA DINNER BAKTI KAMPUS TEKNIK PERMINYAKAN ITB

8 Maret 2024

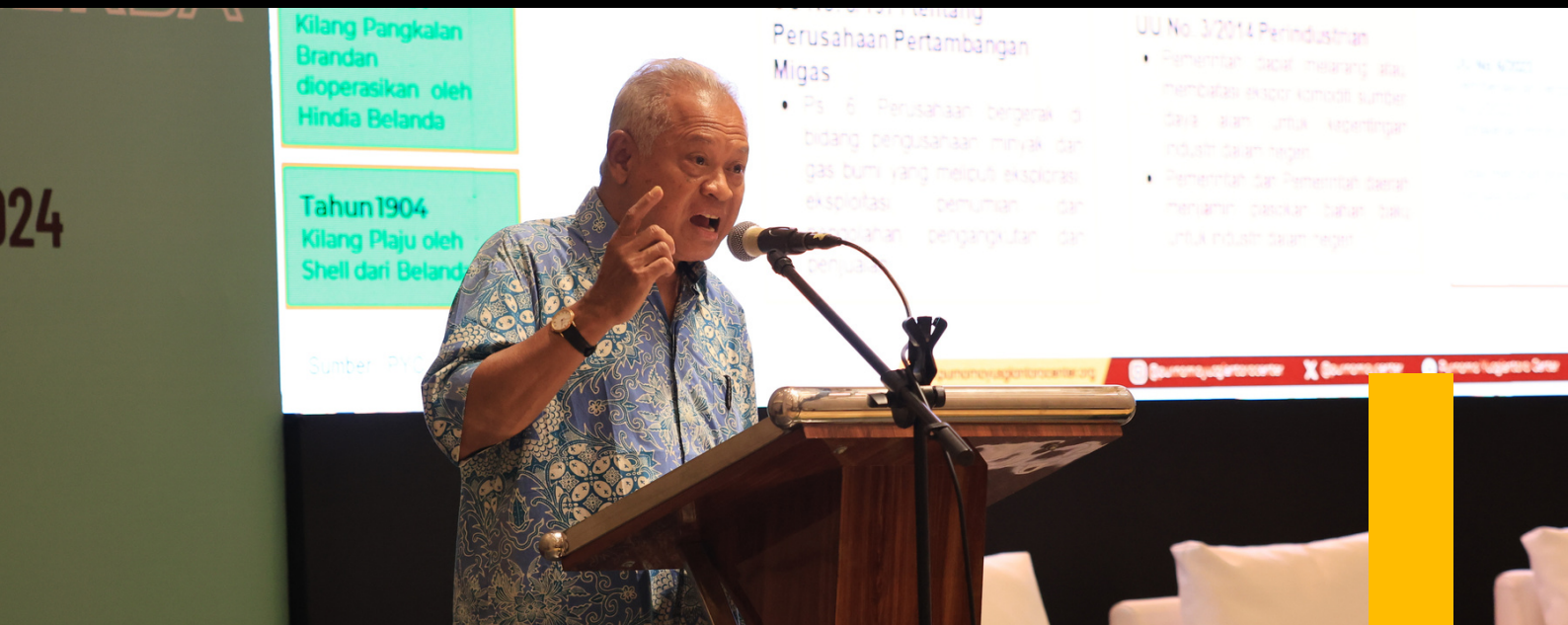


Gala Dinner of the Alumni Association of Petroleum Engineering ITB: The Significant Role of the Purnomo Yusgiantoro Center in Advancing Education

The Gala Dinner showcased the impressive contributions of esteemed ITB Petroleum Engineering alumni, Prof. Tutuka Ariadji and Prof. Purnomo Yusgiantoro. Prof. Ariadji's presentation highlighted Indonesia's carbon storage potential, stressing on the importance of collaborative efforts for sustainability. Purnomo Yusgiantoro Center, dedicated to such significant occasions, symbolically handed over appliances and equipment, led by the chairperson of PYC, Filda C. Yusgiantoro, Ph.D, illustrating the unwavering commitment of PYC to education, aligning seamlessly with alumni dedication.



Penyerahan Sertifikat



Founder of PYC, Prof. Purnomo Yusgiantoro, became the Keynote Speaker at the Future of Mineral Downstreaming Event

Founder of PYC, Prof. Purnomo Yusgiantoro, was the Keynote Speaker at the Future of Mineral Downstreaming event on 20 January 2024. This event was a collaboration between Gatra Media Group and Purnomo Yusgiantoro Center, and was being held at Menara Danareksa.

In his presentation, Purnomo provided several recommendations for the downstreaming of oil and gas and mineral resources. Among these recommendations was to enhance security against infringements in the mineral downstreaming industry. "Yesterday there was a case in Morowali, I think it requires strict supervision," Purnomo stated.

Source: Gatra Media Group



Prof. Purnomo Yusgiantoro in the 62nd Class of 2024 SESKOAL Student Officers Public Lecture

SESKOAL's 62nd batch in 2024 entered its fifth week with a series of lectures on national and military leadership. The atmosphere lighted up with the arrival of Prof. Purnomo Yusgiantoro, as a guest lecturer, warmly welcomed by Rear Admiral Yoos Suryono Hadi, CHRMP. Purnomo elaborated on three crucial leadership aspects: concept, self-leadership, and military-civil leadership dynamics. He emphasized the importance of strong self-leadership for future leaders. The session, enriched with discussions, highlighted Purnomo's invaluable insights, shaping the future TNI leaders in Indonesia.



Prof. Purnomo Yusgiantoro Receives Indonesian Mining Services Figure Award by ASPINDO

Prof. Purnomo Yusgiantoro, a key figure in Indonesia's mining sector, was honored with the Indonesian Mining Services Figure Award by the National Executive Board (BPN) of the Indonesian Mining Services Association (ASPINDO). The award was presented at the 2024 Mining Services Annual Meeting (TTJP) held in Kuta, Badung on 1 March 2024.



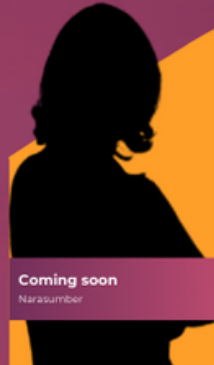
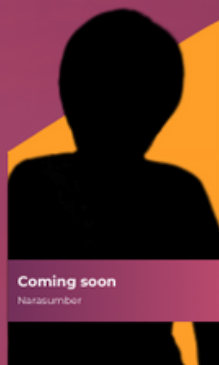
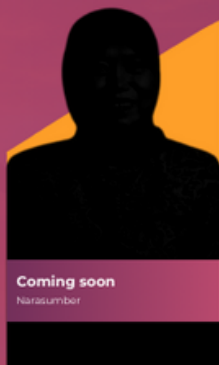
Purnomo Yusgiantoro
(Founder of Purnomo Yusgiantoro Center)

Purnomo's tenure as Minister of Energy and Mineral Resources (ESDM) from 2000-2009 was marked by his successful implementation of the basic foundations of mining governance in post-reform Indonesia, particularly in the service industry.



THE ENSIGHT

"No One Left Behind: GESI dalam Transisi Energi"



Friday
26 April
2024



10.00 – 12.00 WIB



Purnomo Yusgiantoro Center

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PYC E-Newsletter | 1st Quarter: January–March 2024

PROMOTION BOOK

“Politik Energi:
Teori dan Aplikasi”



Available Now

Politik Energi: Teori dan Aplikasi

Hardcover: 389.000,-
Softcover: 359.000,-

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Available Now

Politik Energi: Teori dan Aplikasi

Prof. Ir. Purnomo Yusgiantoro, MSc, MA, PhD, IPU.

"Politik energi dapat direfleksikan sebagai politik yang digunakan untuk suatu tujuan pencapaian dalam lingkup energi. Proses politik dapat dilakukan dengan menggunakan pendekatan soft power & hard power."

- Prof. Purnomo Yusgiantoro

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