

The Story of Sarawak

A Leading Hub for CCUS Innovation and Investment



Discover the Unparalleled Opportunities in Sarawak

Welcome to Sarawak, a region abundant in natural resources, cultural diversity, and a commitment to sustainable development. As part of PETROS' Sarawak Bid Round (SBR) 2024, we invite you to explore Sarawak as the premier destination for innovation and investment in Carbon Capture, Utilisation, and Storage (CCUS) projects.



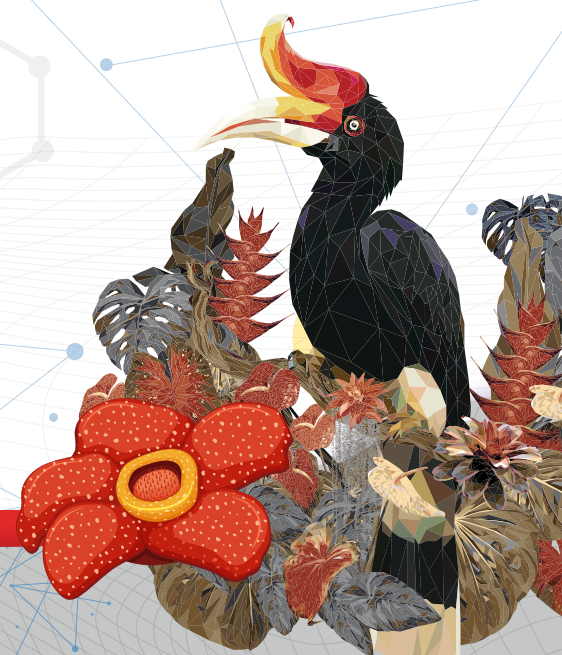
Strategic Location and Resource-Rich

Sarawak's strategic geographical location makes it an ideal hub for CCUS projects. The region has an abundance of natural resources critical for the successful implementation of CCUS technologies. This natural wealth, combined with our extensive infrastructure and connectivity, provides a solid foundation for industrial and technological growth.



Cultural Diversity and Collaborative Spirit

Sarawak's unique cultural landscape is a tapestry of various ethnic groups, each contributing to the region's rich heritage and vibrant community. This cultural diversity fosters a collaborative spirit, driving innovative solutions and creative partnerships. Companies investing in Sarawak will not only benefit from the region's resources but also from the inclusive and dynamic environment that encourages cross-cultural collaboration and innovation.



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Commitment to Sustainable Development

At the heart of Sarawak's vision is a commitment to sustainable development. Our regional policies are designed to promote environmental stewardship while supporting economic growth. By choosing Sarawak, companies align themselves with a partner dedicated to balancing development with ecological responsibility, ensuring long-term sustainability and global impact. In efforts to reduce greenhouse emissions and advance sustainable development, Sarawak launched a strategic approach in March 2023 and PETROS was issued the first Licence for Carbon Storage in Sarawak.



A Prime Business Destination

From a business perspective, Sarawak offers competitive advantages with its investor-friendly policies, robust legal framework, and supportive government initiatives. The PETROS SBR 2024 presents a unique opportunity for businesses to tap into Sarawak's growing market, engage in groundbreaking CCUS projects, and establish a significant presence in the region.

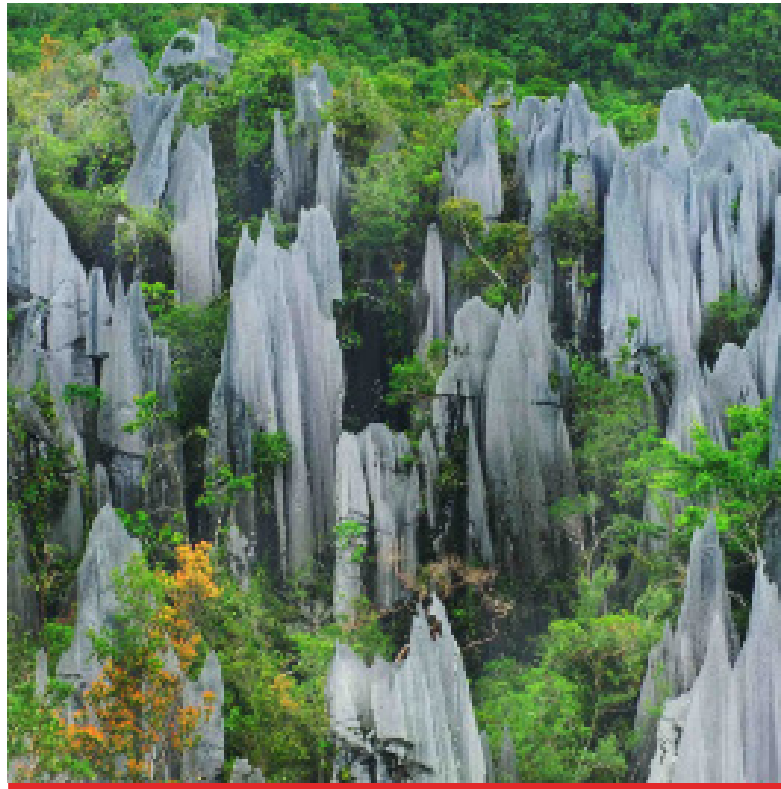


Second Home Destination

Sarawak provides a high quality of life for expatriates and their families, featuring international schools such as Tunku Putra and Lodge International School, as well as private healthcare centres like Normah Medical Specialist Centre, Borneo Medical Centre, Timberland Medical Centre and KPJ Kuching Specialist Hospital. The region is rich in tourism attractions, including Semenggoh Wildlife Centre, Sarawak Cultural Village, Sarawak Museum, Niah and Mulu Caves National Park, Bengoh Dam, and Annah Rais Hot Springs.



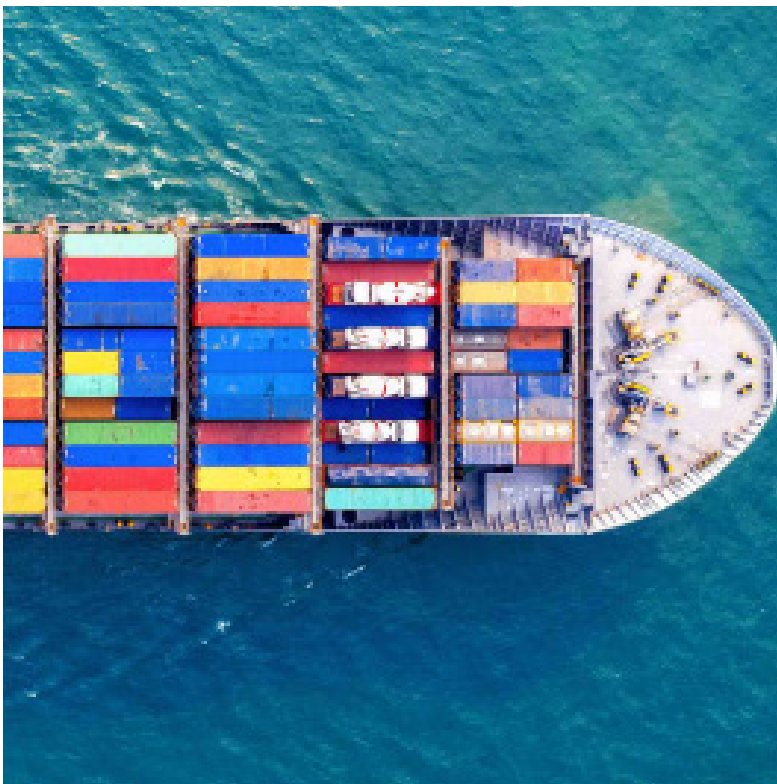
7 Reasons For Investing In Sarawak



Forefront of Sustainability



Highly Cost Competitive



Strategic Geographic Positioning



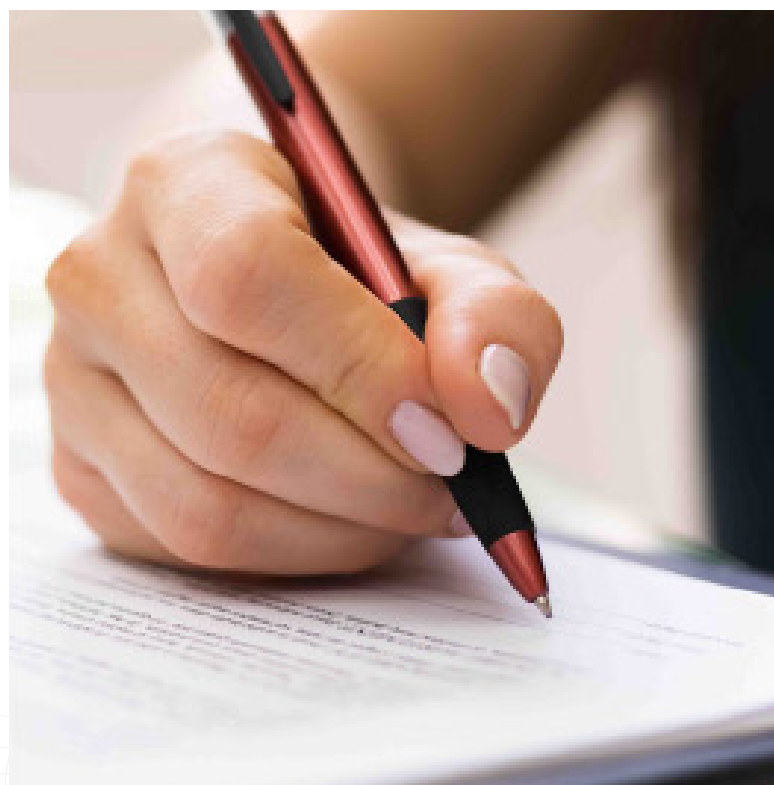
Open for Business, Easy to do Business



Industry-friendly Infrastructure



Enriching Lifestyle



Facilitative Government Incentives

Sarawak

**Ideally Nestled in the Heart of
the Asia-Pacific Region**



Macroeconomics

- \$35 Billion GDP.
- \$4 Billion FDIs in 2020.
- 2.8 Million Population.
- 7% CAGR for FDIs (2011-2020).
- 1.3 Million Workforce.
- 1/3 Total Manufacturing FDIs for Malaysia in 2020.



Sustainability

- 75% Power Generated through Renewable Hydropower supported by Thermal Power.
- 19 Million Tonnes of Biomass.
- Over 80% Land Mass Covered by Forests.
- Over 65 Protected Areas.
- First in Southeast Asia for Green Hydrogen Production.
- First Malaysian State to Join the Global Destination Sustainability Index.



Gas Resources

- More than 1 Bscf/d of Natural Gas Expected at Competitive Prices.
- Natural Gas Reserves.
- Production.
- Domestic Use.



Prime Location and Abundant Resources

Hydropower & Other Renewable Energy

Hydropower

- **Significant Potential:** Sarawak has the highest hydropower generation potential in Malaysia, making it a leading source of renewable energy. The region's extensive river systems, such as the Rajang and Baram Rivers, provide ample opportunities for large-scale hydropower projects.
- **Sustainable Energy:** Hydropower is a clean, renewable source of energy that significantly reduces greenhouse gas emissions. Sarawak's commitment to hydropower helps in the transition to a low-carbon economy.
- **Economic Impact:** The development of hydropower projects creates jobs, boosts local economies, and provides a stable and reliable energy source for industrial and residential use.

Solar Energy

- **High Solar Irradiance:** Sarawak's geographical location offers high solar irradiance, making it an ideal location for solar energy projects. The consistent sunlight throughout the year ensures efficient and sustained solar power generation.
- **Technological Advancements:** With advancements in photovoltaic technology, the efficiency and cost-effectiveness of solar panels have improved, making solar energy a viable and attractive option for investors.
- **Scalability:** Solar energy projects can be scaled to meet varying energy demands, from small residential installations to large industrial solar farms.

Wind Energy

- **Wind Resources:** While less prevalent than hydropower and solar, certain areas in Sarawak have the potential for wind energy generation. Coastal and elevated regions can harness wind power to supplement the renewable energy mix.
- **Complementary Energy Source:** Wind energy can complement other renewable energy sources, providing a balanced and diversified energy portfolio.



Prime Location and Abundant Resources

Natural Gas

Large Reserves

- **Top Producer:** Sarawak is the leading producer of natural gas in Malaysia, with over 60% of the country's natural gas reserves. This abundance provides a reliable and long-term supply of natural gas for various uses.
- **Economic Driver:** Natural gas production is a significant economic driver for Sarawak, contributing to revenue generation, job creation, and the development of related industries such as petrochemicals and LNG (liquefied natural gas).

Versatile Energy Source

- **Power Generation:** Natural gas is a key fuel for power generation, providing a cleaner alternative to coal. Combined Cycle Gas Turbine (CCGT) plants offer high efficiency and lower emissions, supporting Sarawak's low-carbon objectives.
- **Industrial Use:** Natural gas is a critical feedstock for industrial processes, including the production of chemicals, fertilizers, and hydrogen. Its versatility makes it an essential component of Sarawak's industrial ecosystem.
- **Transport Fuel:** The use of natural gas as a transport fuel, particularly in the form of compressed natural gas (CNG) and LNG, offers a cleaner alternative to traditional diesel and petrol, reducing transportation-related emissions.

Transition to Low Carbon

- **Blue Solution Feedstock:** Natural gas reforming can produce hydrogen, a key element in the transition to low-carbon energy systems. Hydrogen can be used in fuel cells, power generation, and as a raw material in various industrial processes.
- **Carbon Capture and Storage (CCS):** Sarawak's significant CCS potential, combined with natural gas production, allows for the capture and storage of CO₂ emissions, further enhancing its role in reducing greenhouse gases and supporting global climate goals.

Achieving Net Zero 2050 CCS in Sarawak

- **~ 9 billion tons CO₂ CCS potential** with distinctive CCS resources.
- PETROS as Resource Manager to maximise value generation from CCS potential.



Commitment to Sustainable Development

Post COVID-19 Development Strategy (PCDS) 2030

The ecosystem below illustrates the interaction between economic sectors and how enablers play a role in achieving economic prosperity

