

Pertamina Power Indonesia Signs MOU with Singapore-Based CRecTech to Pioneer Biogas-to-Bio-Methanol Technology at Sumatera

This Agreement marks a significant step in PNRE's strategy to develop Indonesia's first integrated biogas-to-bio-methanol value chain, positioning the Sei Mangkei Special Economic Zone as a hub for next-generation green fuel production.

JAKARTA, Indonesia, April 2nd, 2026 — PT Pertamina Power Indonesia ("PNRE"), the renewable and clean energy arm of Pertamina Group, Indonesia's national energy company, today announced it has entered into a Memorandum of Understanding ("MOU") with CRecTech Pte. Ltd. ("CRecTech"), a Singapore-incorporated technology company, to explore the development of a pilot biogas-to-bio-methanol facility at the Sei Mangkei Special Economic Zone (SEZ) in Sumatera, Indonesia.

Under the terms of the MOU, the Parties intend to collaborate on a joint piloting study and, subject to satisfactory outcomes, the deployment of CRecTech's proprietary CRecREF™ catalytic technology at PNRE's Sei Mangkei Biogas Power Plant (PLTBg). The pilot is designed to convert biogas derived from palm oil mill effluent into crude bio-methanol.

"This MOU reflects our commitment that PNRE must be at the forefront of Indonesia's energy transition. Sei Mangkei represents an exceptional location of abundant biogas feedstock, strategic infrastructure. We believe that partnering with CRecTech's proven catalytic platform positions us to unlock a genuinely new green fuel value chain, one that is grounded in Indonesian assets and aligned with the global shift toward maritime decarbonisation. We expect this collaboration to move forward and to be scaled up to a much larger, commercial level as soon as possible, so it can deliver real impact for Indonesia's green energy ecosystem."

- John Anis, CEO PT Pertamina Power Indonesia

STRATEGIC CONTEXT

The MOU is anchored in the accelerating global transition away from conventional marine fuels. Bio-methanol is emerging as a credible, IMO-compliant alternative under the organisation's 2030 greenhouse gas reduction targets, with leading international shipping operators already committing to methanol-capable fleets. PNRE and CRecTech intend to establish whether Sei Mangkei can serve as a scalable, commercially viable origin point for bio-methanol destined for export markets.

Indonesia's palm oil sector generates substantial volumes of biogas through the anaerobic digestion of palm oil mill effluent (POME). PNRE has identified multiple sites within its portfolio, including Sei Mangkei, where this feedstock is available at scale. A successful pilot at Sei Mangkei is expected to provide the technical and commercial basis for evaluating a broader national rollout in collaboration with Pertamina's affiliate network across Sumatera and Kalimantan.

“CRecTech’s CRecREF™ technology was purpose-built for this type of application, converting low-grade biogas streams into high-value green chemicals at the point of production, without the capital intensity of conventional methanol plants. Indonesia’s biogas endowment is enormous, and PNRE is the ideal partner to translate that resource advantage into a commercially meaningful bio-methanol supply. We are pleased to formalise this collaboration and look forward to demonstrating what is possible at Sei Mangkei.”

- Kang Hui Lim, CEO, CRecTech Pte. Ltd.

TECHNOLOGY & PILOT PROGRAMME

CRecTech’s CRecREF™ platform employs a proprietary catalytic process to convert biogas, a mixture of methane and carbon dioxide, directly into methanol with high selectivity and energy efficiency. The technology is designed to operate in a modular, containerised format, enabling rapid deployment at distributed biogas sources without the need for large-scale centralised infrastructure.

The Sei Mangkei site offers direct access to biogas supply from an existing POME wastewater treatment facility, proximity to Batam and Sei Mangkei Special Economic Zones for import and export logistics, and established utility and road infrastructure. Bio-methanol produced during the pilot phase is expected to meet greater than 95 wt.% purity on a crude basis, with a refining pathway to greater than 99 wt.% specification-grade product suitable for bio-diesel production.

ABOUT PT PERTAMINA POWER INDONESIA (PNRE)

PT Pertamina Power Indonesia (PNRE) is the renewable and new energy subsidiary of Pertamina Group, Indonesia’s national oil and gas company. PNRE is mandated to develop, invest in, and operate renewable and clean energy projects across Indonesia, including solar, wind, geothermal, and new fuel technologies. As part of Pertamina’s commitment to Indonesia’s net-zero ambitions and the national energy transition agenda, PNRE is actively developing a portfolio of low carbon and bio-fuel projects.

ABOUT CRECTECH PTE. LTD.

CRecTech Pte. Ltd. is a Singapore-based clean technology company specialising in the conversion of carbon-containing gas streams — including biogas, flare gas, and CO₂ — into high-value chemicals and fuels using its proprietary CRecREF™ catalytic platform. CRecTech’s technology portfolio is the product of extensive research and development with intellectual property protected through international patent filings.. The company operates at the intersection of industrial decarbonisation, circular economy, and green chemical production. CRecTech is incorporated in Singapore (UEN No: 202226171E) and maintains a registered address at 71 Ayer Rajah Crescent, #07-01, Singapore 139951.

For more information, please visit www.crectech.net.

IMPORTANT NOTICE REGARDING FORWARD-LOOKING STATEMENTS

This press release contains forward-looking statements, including statements regarding the anticipated feasibility study, pilot programme, and any potential future commercial arrangements between the Parties. Such statements reflect current intentions and expectations only. The MOU is a non-binding memorandum of understanding and does not constitute a commitment by either Party to proceed with any project, investment, or definitive agreement. Actual outcomes may differ materially from those expressed or implied. Neither PNRE nor CRecTech undertakes any obligation to update forward-looking statements. This announcement does not constitute an offer to sell or the solicitation of an offer to buy any securities.