Hydrogen energy storage jakarta

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The National Hydrogen Strategy underscores Indonesia's commitment to transitioning toward low-carbon hydrogen, with a staged approach toward green hydrogen. The MEMR is currently finalizing the country's Hydrogen Roadmap, which will define the timeline and key milestones for hydrogen deployment.

The MoU between PLN and HDF Energy is a direct effort to implement both the National Hydrogen Strategy and Roadmap, as the joint study mandated by the MoU will assess the feasibility of integrating hydrogen across power and transportation sectors in regions with suitable energy contexts. The MEMR, through Ditjen EBTKE, will closely monitor the progress of this collaboration and provide necessary support to address challenges in developing a sustainable hydrogen ecosystem.

HDF Energy is currently developing 23 projects in eastern Indonesia, representing a potential investment of US$1.5 billion, with support from esteemed development institutions, including US DFC. The collaboration aims to enhance the capacity and expertise of Indonesian stakeholders in the hydrogen sector, reinforcing the country’s position as a key player in the transition to a sustainable energy future.

On many occasions, Eniya Listiani Dewi, Director General of New Renewable Energy and Energy Conservation at the MEMR expressed her support to all stakeholders and highlighted the need of cooperation among stakeholders to jointly develop the hydrogen ecosystem in Indonesia.

Darmawan Prasodjo, President Director of PT PLN (Persero), expressed his enthusiasm for this collaboration. As the backbone of the energy transition in Indonesia, PLN is committed to supporting the reduction in greenhouse gas emissions. One example of this commitment is the development of hydrogen, enabled by this partnership. Darmawan stated, "Currently, PLN is not only providing reliable electricity but also committed to becoming the pioneer in the use of renewable and sustainable energy.”

“We are glad to be able to forge a solid collaboration with some partners, such as HDF Energy. Climate change is a global issue that must be addressed collectively. Therefore, PLN cannot bear this burden alone; the only way to move forward is through collaboration," Darmawan added.

Mathieu Geze, HDF Energy’s Director for Asia and President Director of PT HDF Energy Indonesia, added: “We are excited to reaffirm our commitment to a net-zero emissions future with this MoU. Through our collaboration with PLN, we aim to put Indonesia at the forefront of green hydrogen projects in the Asia Pacific region. Our power plants are the first crucial step in decarbonizing other sectors such as maritime. HDF Energy remains steadfast in our dedication to corporate responsibility, environmental stewardship and the pursuit of a sustainable future.”

The MoU was officially signed by Hartanto Wibowo, Director of Corporate Planning and Business Development at PT PLN (Persero), and Mathieu Geze, Director for Asia at HDF Energy and President Director of PT HDF Energy Indonesia, in the presence of Hendra Iswahyudi, the Director of Energy Conservation of Ditjen EBTKE MEMR. The MOU was also witnessed by Michel Oldenburg and Carine Lalmant, the Head of Economic Department and Sustainable Development Advisor of the French Embassy.

Direktur Jenderal Energi Baru Terbarukan dan Konservasi Energi Kementerian Energi dan Sumber Daya Mineral (ESDM) Yudo Dwinanda Priaadi menjelaskan hidrogen hijau merupakan bahan bakar alternatif masa depan. Hidrogen hijau menjadi salah satu pilar utama dalam transisi energi untuk mencapai target Net Zero Emissions (NZE) di tahun 2060.

These fuel cells generate electricity from hydrogen, driving the decarbonization efforts across the power generation, heavy maritime and rail mobility sectors. Set to commence production in 2025 at HDF Energy"s facility near Bordeaux, these fuel cells serve as the cornerstone of the power plants and heavy mobility solutions developed by HDF Energy.

HDF Energy"s Renewstable(R) power plants deliver non-intermittent renewable, stable and baseload power by seamlessly integrating intermittent renewable energy sources with substantial on-site energy storage in the form of green hydrogen. Moreover, HDF Energy is also developing extensive infrastructure for the mass production of carbon-free hydrogen.

Backed by a team of over 150 hydrogen experts boasting more than a decade of operational experience across the value chain, HDF Energy is currently developing a portfolio of projects valued at over EUR5 billion.

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