

Jakarta solar Hydrogen Production Container





Overview

Can Indonesia produce green hydrogen?

It assesses the country's renewable energy potential, hydrogen production capacity, projected demand in the power sector, and the design of a hydrogen supply chain network across Indonesia. With abundant renewable energy potential across its five main islands, Indonesia is well-positioned to produce green hydrogen.

How much does hydrogen cost in Indonesia?

Hydrogen energy, despite its potential as a clean fuel, remains economically uncompetitive in Indonesia compared to other energy options. The production cost of low-carbon hydrogen ranges between USD 5-10 per kg, while green hydrogen, produced from renewable sources, is even more expensive at USD 6-12 per kg .

Can hydrogen be used as an alternative energy source in Indonesia?

Three drivers for hydrogen implementation in Indonesia by 2031: minimizing production costs, implementing carbon taxes, and providing incentives for development. This research examines potential uses of hydrogen as an alternative energy source in Indonesia.

What are the economic benefits of hydrogen energy in Indonesia?

From an economic perspective, hydrogen energy offers long-term benefits by creating green jobs and attracting investments in renewable energy infrastructure. The energy transition policy in Indonesia began in 2014 following the issuance of the National Energy Policy, formalised in Government Regulation of the Republic of Indonesia 79/2014.



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Indonesia PLN Begins Producing Green Hydrogen

This year, the government, through the Ministry of Energy and Mineral Resources, is finalizing a national hydrogen roadmap. This road map will elaborate on the requirements for an ...

Aslan Energy Capital announces solar project for sustainable hydrogen

May 13, 2025 · This landmark solar project will be a cornerstone of Aslan Energy Capital's sustainable hydrogen hub initiative, linking clean power generation directly to green hydrogen ...

Opportunities to Reduce Green Hydrogen Production Costs in Indonesia

Jul 21, 2025 · "One simple approach is to install solar panels on factory rooftops, place hydrogen production container units in parking areas, and directly feed the hydrogen into the production ...

Press release , HDF , Game-changing hydrogen power

Sep 5, 2024 · PLN has already been very proactive in initiating hydrogen pilot projects and studies across Indonesia, including the establishment of hydrogen production facilities and refuelling ...

New energy: Indonesia ready to welcome hydrogen

Apr 16, 2025 · Bisnis Indonesia - Indonesia is preparing to embrace the use of hydrogen as an alternative fuel to reduce the use of fossil energy domestically. Regulations and investment ...

Harnessing unconventional resources for large-scale green hydrogen

Apr 1, 2025 · This study evaluated the potential for large-scale green hydrogen production in Indonesia by utilizing renewable energy sources, namely solar panels and wind turbines, in ...

Building Indonesia's Green Hydrogen Production and Market

Sep 15, 2025 · Indonesia has abundant renewable energy potential, including solar, wind, hydro, and biomass, which can serve as a primary resource for green hydrogen production.

Towards Green Hydrogen Production Pathway in Indonesia

Oct 30, 2025 · With abundant renewable energy potential across its five main islands, Indonesia is well-positioned to produce green hydrogen. However, not all renewable resources can be ...

Building Indonesia's Green Hydrogen ...

Sep 15, 2025 · Indonesia has abundant renewable energy potential, including solar, wind, hydro, and biomass, which can serve as a primary resource ...



Building Indonesia's Clean Hydrogen Economy: From Insight ...

Sep 9, 2025 · An executive summary of ECADIN's Clean Hydrogen Workshop, highlighting Indonesia's dual approach to hydrogen development, global insights, and pathways from ...

Hydrogen's potential and policy pathways for Indonesia's ...

Apr 1, 2025 · Between 2031 and 2035, Indonesia will begin large-scale production of green hydrogen, primarily sourced from renewable energy such as solar, wind, and geothermal power.

Indonesia PLN Begins Producing Green ...

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