
New hydrogen energy solar site in South Africa

Should South Africa build a hydrogen hub?

As South Africa prepares to build a major hydrogen hub, there are concerns over infrastructure gaps, and whether communities will see the rewards. Map of the Hydrogen Valley and planned green hydrogen projects designated as Strategic Integrated Projects (SIPs) by the South African government; hydrogen production capacity by 2050 in parentheses.

Why is green hydrogen important in South Africa?

Green hydrogen is essential for decarbonization efforts in South Africa and Europe. European nations are investing in green hydrogen projects across Africa to ensure a reliable fuel supply. In March 2025, the EU announced that it would financially support green hydrogen projects in South Africa as part of a EUR4.7bn Global Gateway Investment Package.

Will South Africa produce green hydrogen by 2030?

According to a report by National Business Initiative, South Africa could produce green hydrogen for \$1.60 per kg by 2030, one of the lowest costs worldwide. The Hydrogen Roadmap targets at the following impact of its measures:

Does South Africa have a competitive advantage to produce and export green hydrogen?

South Africa has the competitive advantage to produce and export green hydrogen energy and aims to work on the existing opportunities to directly replace the hydrogen produced from natural gas by green hydrogen.

The Coega Green Ammonia project in Nelson Mandela Bay has reached another milestone - the permitting of a 1 430 MW solar PV ...

Our approach Globally, the demand for green hydrogen (H₂) and green hydrogen-based Power-to-X products such as ammonia and synthetic jet fuels (PtX) is rising. To ...

Coega Green Ammonia Project, South Africa The project is expected to produce 1.2 million tonnes of green ammonia annually and ...

Africa experience a surge in renewable adoption, especially with solar energy, in 2025. In this article, we highlight some of the top solar energy projects completed across the ...

A consortium comprising of the French renewable energy developer and IPP company, Akuo Energy, Africoast Investments South ...

Coega Green Ammonia project reaches milestone with 1 430 MW solar PV cluster development, set to produce over 1 million tons of ...

Co-developers of the nine Crossroads solar sites, close to Philipstown, Petrusville and Vanderkloof, are the French renewables and ...

A consortium comprising of the French renewable energy developer and IPP company, Akuo Energy, Africoast Investments South Africa and Golden Sunshine Trading ...

In South Africa, the solar resource is particularly abundant, and this paper investigates several ways of integrating mainly concentrating solar energy (electricity and/or ...

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On the 15th of November 2023, Eskom a South African state-owned and sole Energy provider had a Transmission Development Plan (TDP) workshop which included key ...

Coega Green Ammonia project reaches milestone with 1 430 MW solar PV cluster development, set to produce over 1 million tons of green hydrogen-derived green ammonia ...

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