



# How many hydrogen energy stations are there in West Africa





## Overview

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This report is published jointly by the GIZ projects promoting a hydrogen economy in South Africa (implemented by GIZ on behalf of the Federal Ministry of Economic Cooperation and Development), H2-diplo (implemented by GIZ on behalf of the Federal Foreign Office and financed by the International.

Countries worldwide are placing significant emphasis on clean hydrogen as a carbon-free alternative for established industries such as chemical and fertilizer production, as well as for emerging applications like transportation and power generation. Enthusiasm for clean hydrogen, coupled with.

“It has produced striking results: West Africa has generating potential of up to 165,000 terawatt-hours of green hydrogen per year. That is roughly 1,500 times what the National Hydrogen Strategy assumes will be Germany's demand for hydrogen in 2030. Or to put it another way: This energy is already.

Green Hydrogen Potential Atlas in Africa and follow-up projects Interactive map on generation potential and Cost prices taking into account social aspects The Green Hydrogen Potential Atlas of the Federal Ministry of Education and Research investigates the potential for the production and export of.

The project is focused on assessing the potential of generating hydrogen in West and Southern Africa from the renewable energy resources in the region, looking at detailed technological, environmental, economic and social feasibility assessment



while considering present and future local energy. Can African countries become global leaders in green hydrogen production?

By leveraging these assets, African countries have the opportunity to become global leaders in green hydrogen production, advancing their own economic diversification and energy transition while contributing to global emission reductions.

Is there a green hydrogen project in Africa?

Many projects planned in the country target methanol, synthetic fuels, or pure hydrogen for the transport sector. Currently, the only operational green hydrogen project in Africa is in South Africa and produces 600 tons annually with a 3.5 MW electrolysis capacity.

What is Africa's green hydrogen report?

This Africa Green Hydrogen Report, developed with the support of GIZ, offers the most comprehensive assessment to date of the continent's green hydrogen potential. More than a stocktake, it is a call to action.

Which countries are launching hydrogen projects in Africa?

South Africa and Morocco account for more than half of announced hydrogen projects in the continent. Ammonia is the main product of these projects given the high fertilizer demand in the continent. The other targeted end-uses of current hydrogen projects are the mobility, power, and iron and steel sectors.



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### H2 Atlas Tool

Huge potentials exist for green hydrogen production across the region. Check out the production "hot spots" in our interactive map. Use the ...

### [West Africa emerging as global green hydrogen ...](#)

With the potential to produce 1,956 GW of solar energy and 106 GW of wind energy - in addition to its proximity to Europe - West ...



### [West Africa looks to emulate its northern neighbours](#)

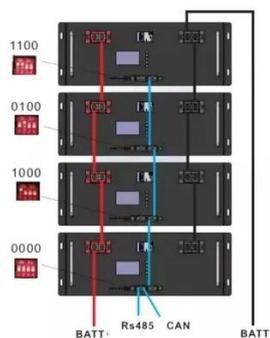
In 2023, the Economic Community of West African States developed a comprehensive green hydrogen policy targeting greater ...

## Green Hydrogen Potential Atlas in Africa and follow-up projects

The Green Hydrogen Potential Atlas of the Federal Ministry of Education and Research investigates the potential for the production and export of



green hydrogen for over 30 countries ...



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## West Africa emerging as global green hydrogen production hub

With the potential to produce 1,956 GW of solar energy and 106 GW of wind energy - in addition to its proximity to Europe - West Africa is taking its place as a global ...



## [African Hydrogen Projects Tracker \[desktop optimized\]](#)

The Hub aims to provide a nuanced analysis of specific clean hydrogen opportunities for emerging markets -- cutting through the hype by monitoring the evolution of ...



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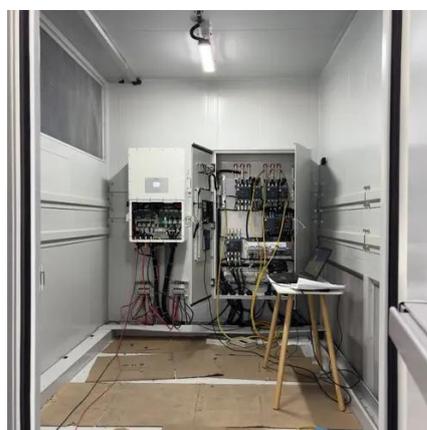
## **KARLICZEK: WEST AFRICA CAN BECOME THE CLIMATE-FRIENDLY ENERGY ...**

With this large supply of wind and solar energy, West Africa could produce up to 165,000 TWh of green hydrogen per year. The atlas shows that it would already be possible ...



## [Review of the hydrogen supply chain and use in Africa](#)

Detailed maps and technical data for gas transport infrastructure and liquefaction terminals in the continent are reported to inform and elaborate findings about readiness for ...



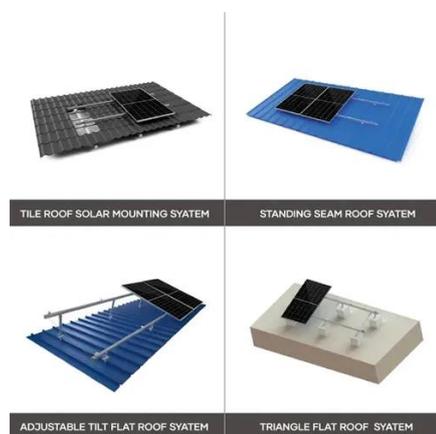
## [Atlas of Green Hydrogen Generation Potentials in Africa](#)

Analysis of available renewable energy and water resources as well as all other resources necessary for green hydrogen generation. Determine the green hydrogen potential within the ...



## African Green Hydrogen Report

Countries like South Africa and Morocco have well-developed energy sectors and related industries, which increase their readiness to roll out GH2 at scale. Elsewhere, technical ...



### KARLICZEK: WEST AFRICA CAN BECOME THE ...

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### H2 ATLAS-AFRICA: Atlas of Green Hydrogen Generation

The aim of the H2 ATLAS-AFRICA project is to support sustainable and economic development through a viable hydrogen economy with a high potential to make Africa an ...



### West Africa looks to emulate its northern neighbours

In 2023, the Economic Community of West African States developed a comprehensive green hydrogen policy targeting greater socioeconomic growth. The political ...



## Contact Us

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