

## SolarTech Power Solutions

# How many hydrogen energy stations are there in West Africa



## Overview

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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.

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 the source hydrogen production project database?

Source Hydrogen production project database link. The Hydrogen Production Projects Database covers all projects commissioned worldwide since 2000 to produce hydrogen for energy or climate change-mitigation purposes.

Do African countries have a hydrogen roadmap?

The review shows how Morocco and South Africa have established clear hydrogen roadmaps and, through an analysis of NDCs submitted by African countries, it highlights that five African countries have indicated hydrogen technologies as a possible mitigation solution. In addition, dedicated hydrogen infrastructures are also needed.

Which African country consumes the most hydrogen?

Hydrogen consumption in Africa is today accounting for around 3 % of global demand, with Egypt being the African country with the highest hydrogen consumption, estimated at 1.4 million tons per year .

How much hydrogen does Africa need?

From the findings, it is highlighted that the iron and steel sector in Africa could consume up to 1.28 million tons of hydrogen per year considering the existing and near-term proposed DR-EAF plants. Egypt and Algeria would require around 75 % of the total assessed hydrogen consumption. 5.2. Ammonia and methanol production

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