

Can Mauritania generate low-cost electricity and hydrogen through electrolysis?

Renewable Energy Opportunities for Mauritania finds that the country could deploy these resources at scale to generate low-cost renewable electricity and hydrogen through electrolysis.

How much hydrogen does Mauritania produce a year?

The World Bank estimates the country's green hydrogen production potential at 12 million tonnes annually. Mauritania's Hydrogen Law has been drafted by the Ministry of Petroleum, Energy and Mines and is being reviewed by the government's lawyers, aiming for parliamentary adoption just before or after elections scheduled for later this spring.

Does Mauritania use biomass?

Traditional biomass - the burning of charcoal, crop waste, and other organic matter - is not included. This can be an important energy source in lower-income settings. Mauritania: How much of the country's energy comes from nuclear power? Nuclear energy - alongside renewables - is a low-carbon energy source.

Does Mauritania have a pipeline of renewable hydrogen projects?

Mauritania currently has the largest pipeline of renewable hydrogen projects to 2030 in sub-Saharan Africa. However, successfully implementing these projects is conditional on attracting sufficient investment, which in turn depends on reducing risk by securing demand from foreign offtakers.

Can Mauritania export hydrogen?

The report outlines three possible pathways for Mauritania to export renewable hydrogen: shipping hydrogen to global markets in the form of ammonia; coupling existing iron ore mining with renewable hydrogen to produce higher-value direct reduced iron for export; and transporting hydrogen to Europe through a pipeline connecting Mauritania to Spain.

Could renewable generation capacity improve Mauritania's mining operations?

The report's analysis finds that expanding renewable generation capacity in Mauritania could improve the sustainability of mining operations, which currently represent close to a quarter of the country's GDP. These operations are energy-intensive, and mines currently rely predominantly on fossil fuels for their electricity supply.

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The International Renewable Energy Agency (IRENA) estimates Mauritania has a maximum development potential of around 457.9 GW for photovoltaic solar projects and 47 GW for wind projects, making it one of the main future hubs for green hydrogen in Africa.

o Secondary control: Ensuring supply-demand balance across Mauritania in order to limit the impact of VRE on transits with neighboring countries. The secondary adjustment should represent a use of approximately 315 equivalent complete cycles per year (22,000 MWh/y)

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Mauritania COUNTRY INDICATORS AND SDGS TOTAL ENERGY SUPPLY (TES) Total energy supply in 2021 Renewable energy supply in 2021 74% 1% 25% Oil Gas Nuclear Coal + others Renewables ... Hydro/marine 0 0 Solar 123 16 Wind 137 18 Bioenergy 0 0 Geothermal 0 0 Total 764 100 Capacity change (%) 2018-23 2022-23 Non-renewable + 12 0.0 ...

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