

Is Mauritania suitable for solar PV and wind development?

The findings of this study indicate that a significant portion of Mauritania's land area is highly suitable for solar PV and wind development.

What is the land utilisation factor for solar projects in Mauritania?

The land utilisation factor for project development has been set to 1%, which translates into a drop in development potential to approximately 457.9 GW and 47 GW for solar PV and wind projects. Figure 9. Utility-scale solar PV: Most suitable prospecting areas in Mauritania Source: Base map (OpenStreetMap); suitability scoring and areas (IRENA).

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.

Does Mauritania need Irena?

In line with the post-RRA process, Mauritania's Ministry of Petroleum, Energy and Mines requested IRENA's support in May 2019 to undertake a suitability assessment to map potential areas for utility-scale solar photovoltaic (PV) and wind projects.

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.

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.

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This activity will support additional activities for the private sector participation in the development of the battery storage and VRE investments in Mauritania compliant with the ECOWAS system.

This new IEA report - the first focusing on Mauritania - explores the potential benefits to Mauritania of

developing its renewable energy options and includes an analysis of the water requirements of hydrogen and the potential for expanding potable water availability through seawater desalination.

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This financing is the largest ever granted by the African Development Bank to Mauritania. The second project, RIMDIR, is a \$16 million grant from the Sustainable Energy Fund for Africa (SEFA) and concerns rural electrification for 40 localities in south-eastern Mauritania.

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The project will provide rural electrification for 40 localities in south-eastern Mauritania, through the installation of hybrid mini photovoltaic power plants and the construction of connecting lines.

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 2% 2% 96% Hydro/marine Wind Solar Bioenergy Geothermal 49% 49% 22% 0% 20% 40% 60% 80% 100% 2016 2017 2018 2019 2020 2021 2022 7.1.1 Access to electricity ...

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