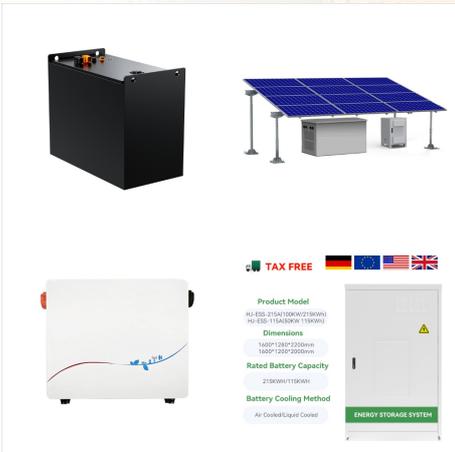




In Morocco, renewable energy policy has gained attention as an effective solution to recognize ecological problems and achieve sustainable growth and with high economic impact [45]. Fulfilling the targets for renewable electrical energy development in Morocco by 2030 presents a new challenge regarding the integration of renewable energy sources



Morocco's agri-food sector now accounts for about 21% of its exports by value. 40 Rabat's Green Generation 2020-2030 plan seeks to enhance the sustainability of agricultural production through the expanded production and use of renewable energy, particularly to power seawater desalination to provide sufficient water for the sector. 41



Renewable Energy Growth in Morocco 3 Morocco's renewable energy industry, however, is in the early stages of development. To comply with targets, an additional 10,100 MW of renewable energy capacity must be developed by 2030, with 4,560 MW planned for solar, 4,200 MW for wind, and 1,130 MW for hydro.12 To fund projects,

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Morocco's National Plan for the Development of the Use of Natural Gas aims to completely replace coal-fired plants by 2050. Thanks to these measures, natural gas imports were reduced by 86 percent between 2017 and 2022. In Oman and Morocco, renewable energy costs are among the lowest globally, so reductions in costs of green hydrogen

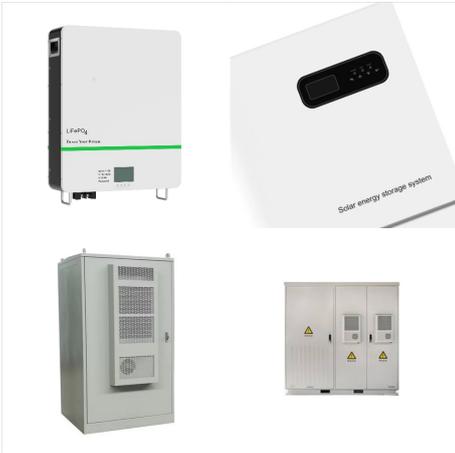


Figure 30 ??? Innovations to be considered for a future renewable power sector in Morocco 68 Figure 31 ??? Installed generation capacity, 2000-2019 74 Figure 32 ??? Solar PV zones with total levelised cost of electricity (USD/MWh) 77 Summary of relevant renewable energy policy instruments, regulations and measures in Rwanda's power sector 76

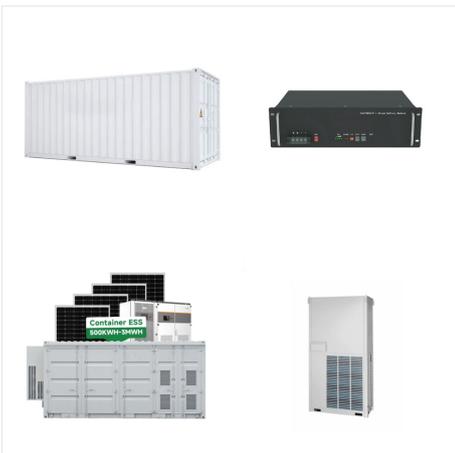


IRENA and Morocco's Ministry of Energy, Mines and Environment sign strategic partnership. Abu Dhabi, United Arab Emirates, 14 June 2021 ??? The International Renewable Energy Agency (IRENA) and the Ministry of Energy, Mines and Environment (MEME) of the Kingdom of Morocco have today agreed to strengthen joint collaboration to advance ???

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by renewable energy to 52 percent of installed capacity by 2030. This would allow the country to reduce its greenhouse gas emis- Supporting Morocco's energy policy (PAPEM III) GIZ Morocco 29, Avenue d'Alger, 6?me ?tage Rabat ??? Hassan, Maroc



The selected keywords for this study encompass terms such as "Morocco" AND ("energy efficiency" OR "carbon emissions" OR "decarbonization" OR "policy" OR "renewable energy" OR "smart," and so on). Subsequently, these keyword domains are amalgamated to generate multiple search queries within the chosen databases.



framework will mean for businesses in the renewable energy sector. The legal framework governing the renewable energy sector in Morocco has undergone significant reform following the publication of (i) law no. 40-19 amending law no. 13-09 on renewable energy and law no. 48-15 on the regulation of the

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6 CASE STUDY ON POLICY REFORMS TO PROMOTE RENEWABLE ENERGY IN MOROCCO
These two programmes were designed to take advantage of Morocco's highly favourable conditions for both wind and solar power, as well as its long-established hydropower sector. Morocco has important renewable energy resources. Wind-

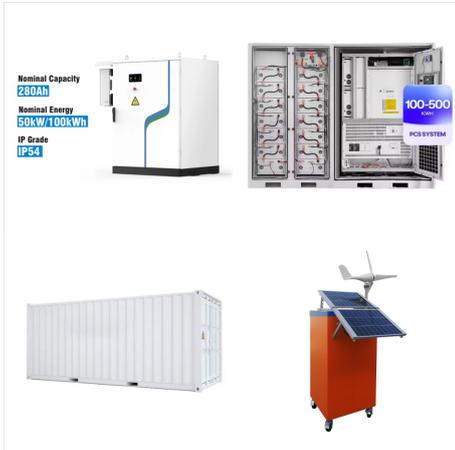


The project will be located near the Atlantic coast in the Guelmim-Oued region of Morocco. TE H2 and CIP will be responsible for the project's renewable energy production through solar, wind, green hydrogen and its derivatives. A.P. M?ller Capital will develop a port and the infrastructure associated with it.



The plan envisions increased renewable energy generation to be shared equally across wind, solar, and hydroelectric sources, while energy efficiency is also prioritized. Morocco's energy plan contributed to it being one of only five countries to have scored a "sufficient" rating in regard to its efforts to keep warming below two

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Primary energy trade 2016 2021 Imports (TJ) 778 422 874 647 Exports (TJ) 1 010 3 064 Net trade (TJ) - 777 412 - 871 583 Imports (% of supply) 94 91 Exports (% of production) 1 3 Energy self-sufficiency (%) 11 11 Morocco COUNTRY INDICATORS AND SDGS TOTAL ENERGY SUPPLY (TES) Total energy supply in 2021 Renewable energy supply in 2021 56% 3% 31%



Morocco has, for a number of years, positioned itself as a leader in Africa and around the world in the development of renewable energy. The national energy renewable energy are launched exclusively from private initiatives, the draft law now allows the administration (via the Minister of Energy, Mines and the



Morocco Ministry of Energy, Mines and the Environment (2010): Law 13-09 on Renewable Energy Morocco Ministry of Energy, Mines and the Environment (2015): Law 54-14 on Renewable Energy Morocco Economic, Social and Environmental Council (2020): Opinion on the Energy Transition Morocco Ministry of Energy, Mines and the Environment (2021): Overview

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Morocco has much work ahead of it in wisely managing scarce water resources. Significant initiatives in sustainable development (the Green Morocco plan) and renewable energy (the Green Generation program) have been implemented throughout the nation, and these initiatives have an impact on water use.



Energy policy in Morocco is no exception. Morocco is a net importer of petroleum products. For comparison, the European Commission targets 27% participation of renewable energy sources in the EU energy mix by 2020 and California has opted for 33% of renewable energy in retail sales by 2020.



The Center on Global Energy Policy is committed to independent and nonpartisan research that meets the high standards of academic integrity and quality at Columbia University. They discussed: What to expect at COP22 in Marrakech and to what extent renewable energy can help address the goals of the Paris agreement; Morocco's development of

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As part of its "Mattei Plan" aimed at supporting Africa, the Italian government has announced plans to establish a renewable energy training center in Morocco. The center will focus on



In 2008, it launched the National Energy and Energy Efficiency Plan, delineating ambitious targets for transitioning to renewable energy sources such as wind, solar, and hydroelectric power. Initially aiming to generate 8% of primary energy from renewables by 2012, Morocco progressively elevated its ambitions.



Therefore, renewable energy is the only way for Morocco to reduce its energy bill and gain control and sovereignty over its energy needs. Morocco has a severe lack of fresh water, ranking 27th globally on WRI's Aqueduct Water Risk Atlas. Surface water and groundwater account for 97 percent of Morocco's fresh water sources. The drought

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building public support, and effort to leverage private investment in renewable energy and necessary infrastructure. 5. Synergy exists between fossil fuel subsidies reform, cost-based tariffs, and renewable energy policy. The expansion of renewable energy ???



The project helps to improve the integration of renewable energy sources into the Moroccan power grid. When Morocco introduced its national energy strategy in 2009, it initiated an energy transition which aims to ensure that about half of installed electricity generating capacity will come from renewable energy sources by 2030



This study investigates whether a resource curse is likely to occur as a result of renewable energy (RE) developments in Morocco, and how related risks can be prevented or mitigated through policy. The resource curse is a paradoxical situation where a resource-abundant country grows more slowly than resource-poor counterparts [1] .

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In 2020, Morocco executed an agreement with Germany for the development of the green hydrogen production sector. The Hydrogen National Commission was created in July 2020 to strengthen the development of renewable energy in Morocco. The Energy ministers of 14 Arab countries, including Morocco, announced an ambitious energy project to