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Can a rational use of energy save energy in Libya?
It has been estimated that the rational use of energy in Libya through utilizing more efficient appliances and lighting combined with improved behavior and energy management initiatives can save up to 2000 MW of installed capacity equivalent to burning 50 M barrels of oil[161].

How much energy does Libya use?
Electricity and gasoline represent the bulk of energy consumption in Libya [ ]. According to the International Energy Agency (IEA), electricity consumption in Libya was equivalent to 2580 kilo tonne of oil equivalent (ktoe) i.e., 2580 × 10 kg in 2017- a figure that is greater than its counterpart of the year 2000 by a factor of 2.5 (1032 ktoe) [ ].

Are there alternative energy options in Libya?
As the national Libyan energy plan was limited in scope focusing primarily on solar energy and onshore wind energy, this paper focuses the spotlights towards the implications of exploring other RE alternatives in Libya, so that decision makers and energy planners may revisit future RE strategies and implementation policies.

Where is the best location for offshore wind projects in Libya?
Based on the analysis of bathymetric and Wind Atlas data,offshore wind technology in Libya has been technically evaluated. Specifically,at 4 km distance from the shore of Karsaat 32.87 N and 22.47E is the most preferable location for offshore wind projects with a power density of 717 W/m at 100 m height.

Can large-scale PV projects be implemented in Libya?
There have been few works in literaturefor the assessment of large-scale PV projects in Libya. The potential of installing a 50 MW PV power plant at Al Kufra was evaluated in Ref. []. The study indicated that the proposed PV plant can generate 114 GWh and reduce 76 ktCO pollution per annum.

Is Libya a good candidate for low-carbon hydrogen production?
Libya is an ideal candidatefor low-carbon hydrogen production either by means of natural gas combined with carbon capture use storage [178],methane splitting [179],or by its available rich RE resources [180]. Interest on solar-hydrogen production in Libya is not new.

The Government of National Unity in Libya has initiated the National Strategy for Renewable Energy and Energy Efficiency, outlining plans for achieving 4 GW of combined solar and wind capacity by 2035.

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Abstract: This paper presents Seawater Pumped Hydro Energy Storage (PHES) in Libya. The study is divided into two parts, the first part discusses the location, design, and calculations.

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This research investigates the potential of utilizing existing dams in Libya as Hydro Pumped Energy Storage (PHES) systems. This paper demonstrates an effective approach to identify and assess suitable locations for establishing hydropower structures.

Libya"s state petrol company declared on Sunday force majeure at the key Zawiya Refinery in western Libya after armed clashes nearby. In a statement, the National Oil Corporation (NOC) ...

Advanced technologies critically needed to enhance energy security and improve the penetration level of renewables, including hydrogen storage and energy efficiency (EE), are elaborately discussed.

13 ????· Libya"s state petrol company declared on Sunday force majeure at the key Zawiya Refinery in western Libya after armed clashes nearby. In a statement, the National Oil Corporation (NOC) said the refinery storage tanks sustained significant damage from gunfire that caused serious fires. "This damage ...

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Who is ZettaJoule Energy Storage. ZettaJoule was founded by Dewald le Grange in 2012 as a start-up company in the renewable energy space. In 1982 he graduated as an Electronic Engineer from the University of Pretoria. His early years were spent as an Instrumentation Engineer, where after he advance d to automated process control in the late ...

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