

Expected ROI of standalone energy storage project in Libya 2025

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].

What re technologies are available in Libya?

Existing utilization state and predicted development potential of various RE technologies in Libya, including solar energy, wind (onshore & offshore), biomass, wave and geothermal energy, are thoroughly investigated.

What is the potential of solar PV & onshore wind in Libya?

The average potential of solar PV and onshore wind over the Libyan territories amounts to 1.9 MWh/kW/year and 400 W/m, respectively. Notwithstanding, biomass and geothermal energy sources are likely to play an important complementary role in this regard.

How efficient is power generation in Libya?

On the other hand, power generation efficiency in Libya is at the average of 28%, while losses in power transmission and distribution systems are at the level of 14% [168]. Therefore, efficiency of existing power generation and transmission infrastructure systems should be improved urgently.

Can large-scale PV projects be implemented in Libya?

There have been few works in literature for 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. [1]. The study indicated that the proposed PV plant can generate 114 GWh and reduce 76 ktCO₂ pollution per annum.

How much energy does Libya use?

Electricity and gasoline represent the bulk of energy consumption in Libya [1]. According to the International Energy Agency (IEA), electricity consumption in Libya was equivalent to 2580 kilo tonne of oil equivalent (ktoe) i.e., 2580 × 10³ kg in 2017 - a figure that is greater than its counterpart of the year 2000 by a factor of 2.5 (1032 ktoe) [1].

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