

Can solar water heaters save energy in Libya?

A study conducted by the Center for Solar Energy Research and Studies (CSERS) revealed that replacing electric water heaters (EWH) with the solar counterparts in the domestic sector of Libya could save up to 2.55 TWh of the annual energy consumption[157]and the electricity peak would be cut by 3% [158 ].

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/yearand 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 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 gas is needed for electricity production in Libya?

Based on the general production administration of GECOL, the daily average amount of gas supply required for electricity production in the year 2019 was 581 millions of cubic feet(MCF), constituting 26.7% of the daily national gas production. Natural gas represents about 63% of the Libyan electricity as presented in ].

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.

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