



# Maldives energy storage exports

Can the Maldives reduce its reliance on imported fossil fuels?

Despite the challenges, the Maldives is endowed with significant renewable energy resources, as per previously mentioned ADB report, that could reduce its reliance on imported fossil fuels: Solar Energy: The Maldives benefits from high solar irradiance levels, making solar energy the most viable renewable resource.

How can the Maldives diversify its energy portfolio?

Diversification and Stability in Energy Sources: Integrating a mix of renewable energy sources--such as solar, wind, and ocean energy--will diversify the Maldives' energy portfolio, reducing its exposure to volatile international fuel markets.

Is solar energy a viable renewable resource in the Maldives?

Solar Energy: The Maldives benefits from high solar irradiance levels, making solar energy the most viable renewable resource. Solar photovoltaic (PV) systems can generate approximately 1,200 kWh of electricity per square meter annually.

How much does the Maldives spend on fuel imports?

Recent statistics show that the Maldives spends more than 10% of its GDP on fuel imports as seen in the Figure 1 below, with half of these imports used for electricity generation.

What is the energy landscape in Maldives?

The Maldives' energy landscape is characterized by a heavy dependence on diesel fuel for electricity generation. The high cost of energy production results from this dependence, with the country importing fuel at elevated prices due to its geographical isolation and dispersion, and small-scale import quantities.

Why is electricity so expensive in the Maldives?

Reliance on imported diesel for power generation, the lack of economies of scale, and poor quality of infrastructure have resulted in a high cost of electricity in the Maldives. Maldives has a target to reach net-zero emissions by the year 2030 with international support.

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