

# What is the energy storage demand in the Maldives



## Overview

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This report establishes the Maldives at the forefront of efforts by developing countries to use energy storage to integrate variable renewable energy to the grid and reduce emissions. As we move towards a sustainable future for the Maldives, I am honored to introduce the Maldives Energy Policy and Strategy, a comprehensive approach, that will guide our nation towards a cleaner, greener, and more resilient energy future. Further, significant dependence on imported oil for meeting its energy needs also has profound effects on economic development of the country. With over 1,100 coral islands spread across 26 atolls, the country has long been a symbol of natural beauty and tropical escape. But beneath . To increase generation capacity from renewable energy sources and to facilitate the integration of renewable energy into Maldives' grid infrastructure.

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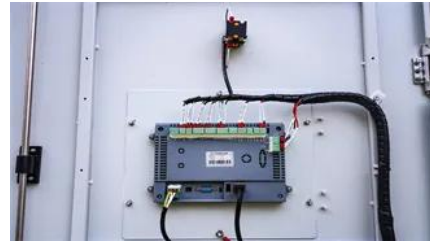


### Maldives: Solar Power Development and Energy Storage Solution

The Project involves the development of 36 MW solar power project and 50 MWh of battery energy storage solutions across various selected islands in the Maldives.

### Shaping the Future of Sustainable Energy in Maldives

Energy storage and microgrids represent a transformative opportunity for the Maldives to achieve energy independence, reduce carbon emissions, and ensure reliable electricity for its island communities.



### Energy Storage Roadmap for the Maldives , ESMAP

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### The Middle East Conflict: Catalyzing Demand and Reshaping

Surge in Energy Storage Demand: From Energy Security to Strategic Imperative The conflict has fundamentally altered the calculus for energy security in the Middle East, transforming energy





## **Increase Renewable Energies in the Maldives , BASE**

To achieve full transition away from diesel based power generation, both utility scale renewable energy systems and storage are needed, as well as household and small business self-consumption

## **Accelerating Maldives' Transition to Renewable Energy**

To service this demand, the Maldives relies heavily on imported diesel - in 2021 alone, they imported \$535M in refined petroleum from Oman, India, Singapore, Saudi Arabia, and the United Arab



## **World Bank Document**

The Energy Storage Roadmap for the Maldives is an essential study performed to evaluate the potential of implementing renewable energy sources and energy storage on islands of the Maldives.

## **Maldives: Storage for a renewable future**

Small scale storage is already being experienced in smaller islands under POISED Project (Public sector investment), ranging from 50 - 300 kWh, and RE penetration of 15-50%



## **Energy Policy and Strategy 2024**

The Maldives, as a small island nation highly vulnerable to the impacts of climate change and



heavily dependent on imported fossil fuels for energy generation, faces significant challenges in ensuring a

### [A Brighter Future for Maldives Powered by Renewables: Road Map](#)

Maldives has no proven fossil fuel reserves, but it has abundant renewable energy sources such as solar, wind, and ocean (tidal, wave, and ocean thermal)-with the potential to produce green



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