

Sri Lanka Wind Power Storage





Overview

What is the wind energy resource of Sri Lanka?

An all island Wind Energy Resource Atlas of Sri Lanka was developed by National Renewable Energy Laboratory (NREL) of USA in 2003, indicates nearly 5,000 km² of windy areas with good-to-excellent wind resource potential in Sri Lanka. About 4,100 km² of the total windy area is on land and about 700 km² is in lagoons.

Can Sri Lanka build a wind power plant?

Factors such as wind speed, wind direction, topography, and proximity to the power grid need to be assessed to determine the site's suitability for wind power generation. At present, higher wind potential areas in Sri Lanka are analyzed to construct effective wind power plants.

What is the wind potential of Sri Lanka?

The windy land represents about 6% of the total land area (65,600 km²) of Sri Lanka. Using a conservative assumption of 5 MW per km², this windy land could support almost 20,000 MW of potential installed capacity. If the windy lagoons are included, the total theoretical wind potential increases to approximately 24,000 MW.

What percentage of Sri Lanka's land is windy?

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