

Sri Lanka Wind Solar and Energy Storage Project





Overview

Is wind solar potential high in Sri Lanka?

This thesis aims to provide insights into the development of wind-solar hybrid-power generation systems where wind solar potential is high in Sri Lanka. The potential of solar energy and wind energy will be investigated at different locations in Sri Lanka by gathering data from various sources.

Is Sri Lanka economically feasible for wind and solar power generation?

Sri Lanka has identified economically feasible potential for wind and solar energy generation. The southern and western coastal belts are particularly suitable for utility scale wind and solar power generation.

Can Sri Lanka develop a wind power project?

By applying the site screening process, collecting information from CEB and other personnel and visiting the Central High Plains and other areas of Sri Lanka, an initial assessment of the entire country for the relative feasibility of wind power project development was conducted.

Where is Sri Lanka's only utility-scale wind power project located?

Sri Lanka's only utility-scale wind power project, a 3-MW pilot project, is located near Hambantota although several kilometers inland from the southeast coast. The site chosen is different from the sites analyzed in CEB feasibility study in order to distance the project from national park and reserve land.



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