

Containerized renewable power project ROI in Greenland





Overview

Are renewables a good investment in Greenland?

The only two other identified studies on some communities in Greenland have both concluded that integration of renewables offers significant cost savings [47, 51]. Furthermore, lower capex assumptions for solar PV in this study compared to Ref. suggest that even higher benefits may be achieved in a fully renewable system in the future. 5.2.

Will improvements in foundation design reduce electricity costs in Greenland?

However, in the future, if improvements in foundation design can be made, the improvements may significantly increase the FLH and thus may offer lower electricity costs. FLH of wind power on all area of Greenland is 5665 h, or 26% higher than on ice-free only area.

Is renewables integration possible in Svalbard & Maniitsoq?

The feasibility of renewables integration in Longyearbyen in Svalbard, in Maniitsoq in Greenland, and in Kotzebue in Alaska has been investigated in another study by the authors .

Can wind turbines be installed in Greenland?

Wind turbine construction in the Arctic Around 80% of Greenland is covered with the Greenland Ice Sheet extending up to 3 km at its thickest point . Despite environmental challenges, wind turbines have reportedly been installed in Arctic conditions and on permafrost, but no installations have been identified on permanent ice.



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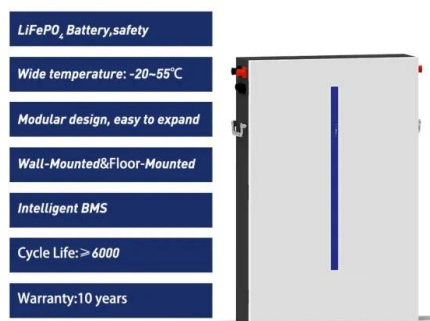


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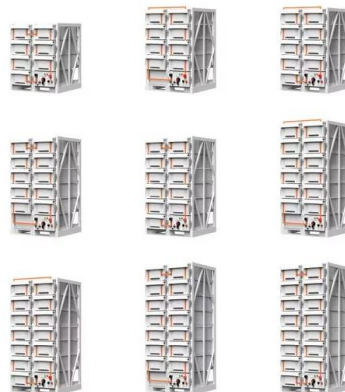


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