

Cost Analysis of a 500kWh Solar Container for Field Operations





Overview

How many m² is a 500 kW grid connected solar PV plant?

Chosen area for the estimated plant capacity is considered as 10,1533 m². 2. Methodology To find out the cost analysis for 500 KW grid connected solar PV plant in India, the solar radiation over different months were measured for Dharwad area in Karnataka-India.

What is NREL's solar-plus-storage cost benchmarking work?

This work has grown to include cost models for solar-plus-storage systems. NREL's PV cost benchmarking work uses a bottom-up approach. First, analysts create a set of steps required for system installation.

How much does a PV system cost?

Finally, cost analysis is carried out for the proposed design. Estimated PV System Cost is Rs. 6 Crore's as calculated. The methodology adopted seems satisfactory for determining the possible plant capacity for an calculated area of 69,712m² whereas the total built up area of all the hospital building is approx 101533m².

How to calculate a profit from solar PV installation?

As we know that useful life of PV is 25 years and we calculated the pay-back period of SPV is 8 years so by subtracting useful life to Pay-back period and then multiplying the difference in bill amount we can get the profit of Rs 13 Crore's. 3.9. Calculation of required Roof-Area required for 500kW SPV installation 4.



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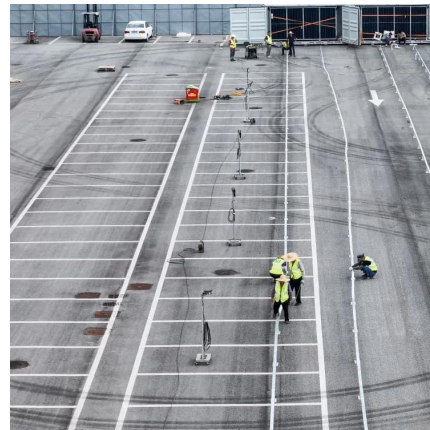


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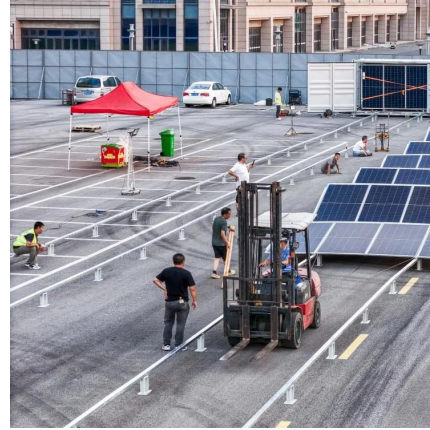
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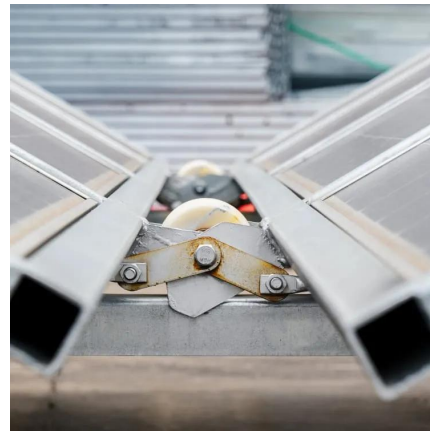
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