
Cost of Grid-Connected Solar Containers for Russian Farms

How much does grid interconnection cost?

Several separate data-files were last released in mid-2023, and we have aggregated them here, then added our own analytics and observations. The cost of grid interconnection has averaged \$138/kW across 3,382 projects in the database, which breaks down as \$51/kW for thermal power plants, \$138/kW for wind projects and \$167/kW for solar projects.

How much does it cost to tie in a solar project?

Larger and higher voltage projects have lower tie-in costs. Again it was surprising how vastly the ranges can vary. The lowest-cost tie-in was \$25/kW, tying in a solar asset to a 230kV power line with spare capacity that is a mere 1-mile away.

How much does a grid upgrade cost?

A good baseline is to expect \$100-300/kW of grid inter-connection costs, or \$3-10/kW-km, over a typical distance of 10-70 km. But the requirement to fund network upgrade costs can push grid connections to cost more than developing renewables projects themselves?!

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Kikuchi (Kikuchi et al., 2018) evaluated solar photovoltaic power generation and heat recovery measures. Keyvan and Roshandel (Keyvan & Roshandel, 2024) combined waste CO ...

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