

Cost of US Base Station Containerized Grid Connection





Overview

How much does a grid connection cost?

Across the subset of projects that did ultimately connect to the grid (i.e., excluding projects that withdrew their proposals, sometimes due to prohibitively high grid connection costs), the average cost has increased by 4x from \$25/kW in the 2000s to \$110/kW in 2022-23.

Why are so many power plants requesting a grid connection?

Solar, battery storage, and wind energy account for 95% of all active capacity in the queues. The unprecedented volume of requests in queues points to significant shifts in the generation mix of the US power system but is also evidence of a significant structural and regulatory bottleneck for plants seeking grid connection.

How much did energy storage cost in 2022?

Although energy storage remains a relatively small portion of the total budget for distribution infrastructure, spending increased from \$97 million in 2022 to \$723 million in 2023.

How many new power generation & energy storage are in interconnection queues?

The amount of new power generation and energy storage in interconnection queues across the US has surged over the last decade, with over 2,600 GW of total capacity now actively seeking interconnection. This represents a 6-fold increase since 2014 (Figure 1).



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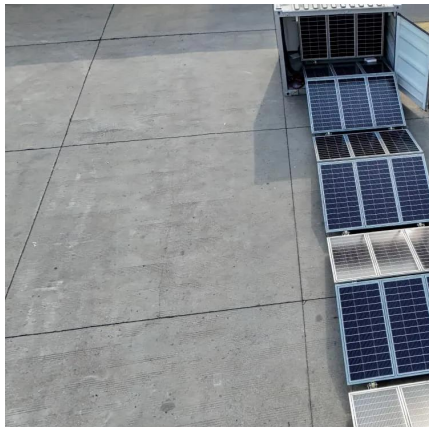
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Cost of grid interconnection?

The cost of grid interconnection has increased substantially over time. Across the subset of projects that did ultimately connected to the grid (i.e., excluding projects that withdrew their ...



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The following are some of the key factors that are typically considered when calculating grid connection costs: Distance: The distance between the proposed generation site and the ...

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