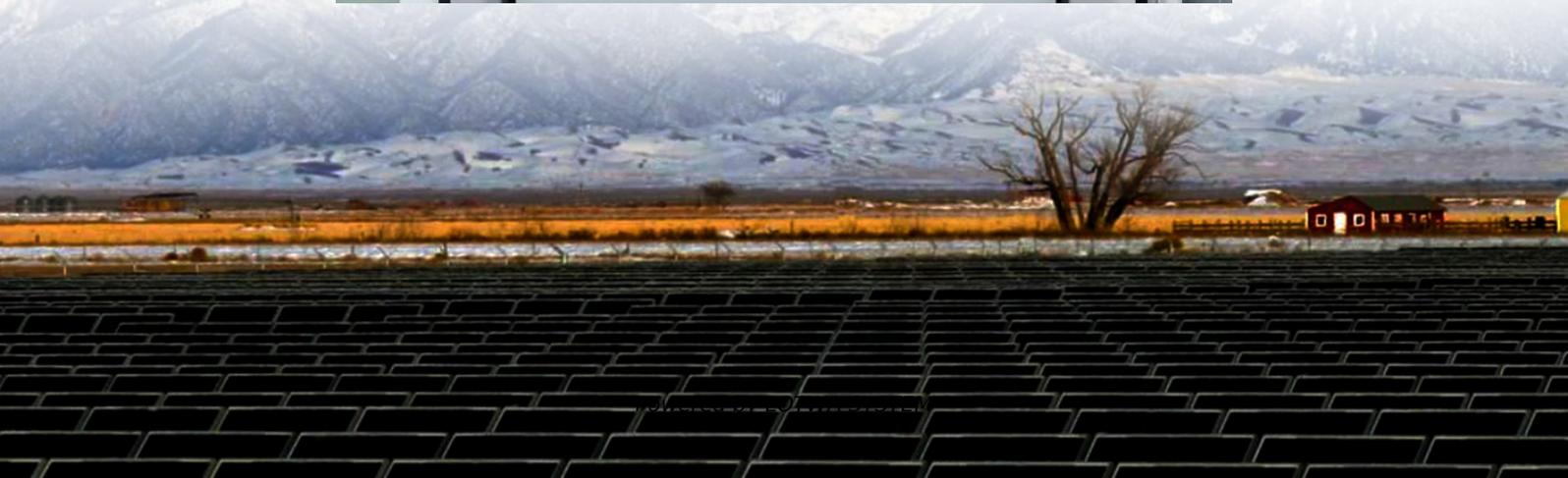


Cost of using collapsible containers for grid connection in US mines





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.

How many projects are seeking grid interconnection?

In total, the data set consists of 11,597 projects, or 2.6 Terawatts (2,600 gigawatts) of generation and storage that are actively seeking grid interconnection, plus 17,873 projects that entered the queues but were withdrawn, and 4,155 projects that moved through the queues and reached commercial operations.

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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How many new generation and storage projects require interconnection?

This study analyzes interconnection cost data from 194 projects that were evaluated in interconnection studies between 2010 and 2021, including at least 55% of all new generation and storage projects requesting interconnection to the ISO-NE system during 2010-2019. This sample is based on all available studies on ISO-NE's website as of May 2022.



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