



LLSE CONTAINERS

How much does a grid-connected folding container for African mines cost





Overview

What is the cost to electrify with a grid?

The leveled cost of electricity (LCOE) to electrify with grid only increases dramatically at around 500 million people. Adding MG and SAS can further reduce the LCOE.

Why does least-cost electrification happen via grid densification?

We further observe that the LCOE is similar across tiers for the first 30% of the unelectrified population because these people live in urban or peri-urban areas with existing grid connections. Hence, least-cost electrification takes place via grid densification, which serves different tiers at similar cost.

Why is the cost of capital lower for grid electrification?

The cost of capital is lowest for grid electrification due to the ability of grid companies to attract more debt (on average 50%) compared to other options like standalone systems (SAS) or microgrids (MG).

Do Mini-grid (MG) cost inputs matter?

Mini-grid (MG) cost inputs matter proportionally less because fewer people are electrified with MG. Grid and transmission and distribution (T&D) infrastructure cost inputs have a relatively large impact too because a large share of the unelectrified population is projected to receive grid electrification.



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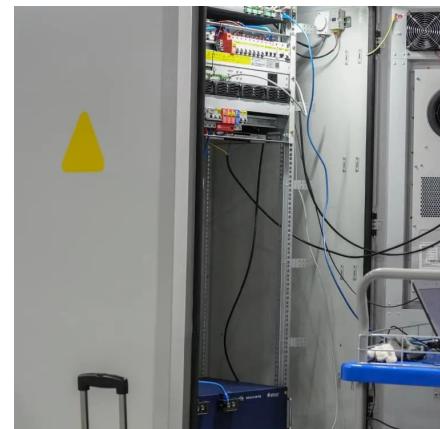


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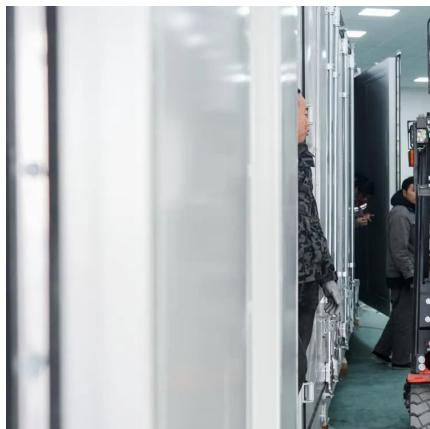
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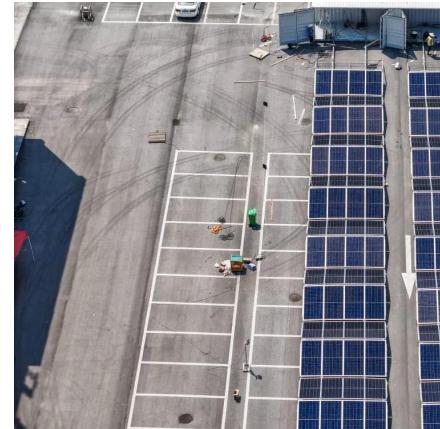


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