



Microgrid storage cost breakdown in Bahamas 2030

How much does a mini-grid cost?

LCOE of US\$0.60/kWh needs to be more than halved to allow for an affordable cost-reflective tariff. Upfront cost per connection for mini-grids is around US\$500-2,100, similar to the unsubsidized cost for traditional grid connections. In remote areas, mini-grids are the preferred options for electrification as grid extension costs increase.

What are the different mini-grid cost metrics?

Understanding different mini-grid cost metrics supports informed decision-making. For instance, the levelized cost of energy (LCOE) accounts for all costs spread over the lifetime and load profile of a mini-grid, including capital expenses (CAPEX), operating expenses (OPEX) and therefore is an indicator for the cost-reflective tariff.

How can remote monitoring reduce mini-grid O&M cost?

Remote monitoring of power generation, storage and consumption can cut mini-grid O&M cost by 30% (LCOE by 4%) by reducing the number of site trips and prolonging component lifetime, therefore cutting labor, logistics and component replacement costs. (AMMP, p.7,10,13; RMI, p.18)



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