

## ContainerPower Energy Solutions

# Burundi mobile off-grid energy storage system prices

20 ft container



40 ft container



## Overview

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At their current design point, the capital cost of the power system, including labor, is  $C_P = \$396/\text{kW}$  ( $\$33/\text{kWh}$ ), while the capital cost of the energy system is  $C_E = \$56/\text{kWh}$ . These costs decrease further for longer duration systems (e.g., 24 hours of storage costs less per kWh than 12).

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This Model Business Case (MBC) analyses the financial feasibility of a hypothetical . Findings indicated that PV/Wind/Generator/Battery hybrid system is the most economically viable option with a total cost of \$168,137 for the whole system project life time, i.e. 20 years . This paper.

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The data for sub-1 kW SHS collected for this report translate into annual costs of USD 56 to USD 214/year, assuming a 5% real cost of capital, a six-year life and one battery replacement.<sup>7</sup> The cost and performance of the battery systems are based on an assumption of approximately one cycle per day.

This report is the basis of the costs presented here (and for distributed commercial storage and utility-scale storage); it incorporates base year battery costs and breakdown from (Ramasamy . Explore the cost breakdown, ROI analysis, and real-world applications of industrial solar energy storage.

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Small-scale lithium-ion residential battery systems in the German market suggest that between and , battery energy storage systems (BESS) prices fell by 71%, to USD 776/kWh. How much does a 4 hour battery system cost?

Figure ES-2 shows the overall capital cost for a 4-hour battery system based on.

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