

# Average lead acid battery storage price per 5kWh in Romania

How much LCoS does a battery cost in Romania?

To be considered profitable, the LCOS of the battery must be less or equal to electricity unit price paid by the customer. The electricity price considered for Romania is 0.1734 EUR/kWh, which is the average price in the first quarter of 2021, according to EU statistics .

Are lithium-ion batteries better than lead-acid batteries?

The lithium-ion battery has a lower LCOS value, and it is more environmental-friendly than lead-acid batteries. Comello and Reichelstein developed a model to calculate the cost and to optimally size a lithium-ion battery for a residential consumer in Germany.

Are AGM VRLA batteries profitable?

As can be observed, the AGM-VRLA battery has higher values than the profitability threshold, followed by Gel-VRLA battery and AIHB battery, for both LCOS1 and LCOS2, even if CAPEX decreases by 40 %. Thus, AGM-, Gel-VRLA and AIHB batteries are not profitable, in both studied situations.

What is the storage capacity of a lithium battery?

The storage capacity for the battery is 50 kWh. The application need is summarized in the above table: The costs of delivery and installation are calculated on a volume ratio of 6:1 for Lithium system compared to a lead-acid system.

Should electricup beneficiaries buy a battery energy storage system?

Considering that "ElectricUp" beneficiaries can purchase a battery energy storage system (BESS) at a reduced price and combining this with the lower cost of each surplus kWh injected into the grid, the option of integrating a BESS becomes more attractive.

How often should a lead-acid battery be replaced?

Based on the estimated lifetime of the system, the lead-acid battery solution-based must be replaced 5 times after initial installation. Lithium Iron phosphate solution-based is not replaced during operation (3000 cycles are expected from the battery at 100% DoD cycles)

Lithium-ion batteries dominate both EV and storage applications, and chemistries can be adapted to mineral availability and price, demonstrated by the market share for lithium iron phosphate (LFP) batteries rising to 40% of EV sales and ...



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