

Return on investment of factory energy storage power station





Overview

Is energy storage a good investment?

The return of investment is an important metric about how attractive an investment may be. However this is an important note that energy storage usually does not generate electricity savings directly, but allows the transport or trading of electricity. This usually results in storage not having a high ROI like solar investments, for example.

What is storage NPV in terms of kWh?

The storage NPV in terms of kWh has to factor in degradation, round-trip efficiency, lifetime, and all the non-ideal factors of the battery. The combination of these factors is simply the storage discount rate. The financial NPV in financial terms has to include the storage NPV, inflation, rising energy prices, and cost of debt.

What is the storage NPV for a red battery?

The storage NPV for the red battery in terms of kWh delivered over 10 years results in a calculation of: 945KWh delivered from a battery designed for 100KWh per year. Mapping from yearly to daily -> $100\text{kWh} / 365 = 0.274\text{kWh}$ nominal delivering 945kWh over 10 years.



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