



Energy storage cabinet project investment payback calculation

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What is Project Payback?

Payback is measuring the time before cumulative cashflows from the project match the investment amount. A shorter payback is usually desired but has to be weighed alongside the NPV and ROI of an investment, as it is possible that a shorter project payback has a lower ROI and NPV between investments.

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.

The cost categories used in the report extend across all energy storage technologies to allow ease of data comparison. Direct costs correspond to equipment capital and installation, while ...

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