



# Benchmark rate of return for energy storage projects





## Overview

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IRR measures the return on investment for energy storage projects and represents the average annual rate of return, resulting in a net present value of zero. Furthermore, this study proposes a. In this work we describe the development of cost and performance projections for utility-scale lithium-ion battery systems, with a focus on 4-hour duration systems. Investors could adjust their evaluation approach to get a true estimate—improving profitability and supporting sustainability goals. This analysis identifies optimal storage technologies, quantifies costs, and develops strategies to maximize value from energy storage investments.



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### [Battery Energy Storage System Evaluation Method](#)

This report describes development of an effort to assess Battery Energy Storage System (BESS) performance that the U.S. Department of Energy (DOE) Federal Energy Management Program ...

### [Evaluating energy storage tech revenue potential . McKinsey](#)

While energy storage is already being deployed to support grids across major power markets, new McKinsey analysis suggests investors often underestimate the value of energy storage ...



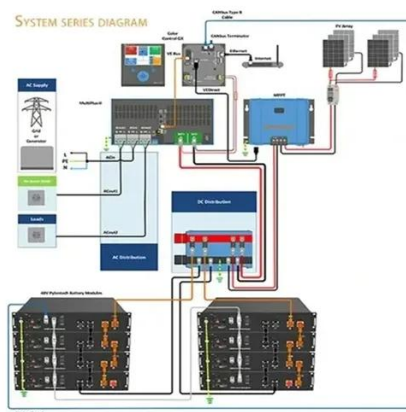
### [Utility-Scale Battery Storage , Electricity , 2024 . ATB , NLR](#)

The Storage Futures Study (Augustine and Blair, 2021) describes how a greater share of this cost reduction comes from the battery pack cost component with fewer cost reductions in BOS, ...



### [Energy Storage System Investment Decision Based on Internal Rate ...](#)

The advantage of the internal rate of return method is that it can link the income of the project life to its total investment, point out the profit rate of the project, and compare it with the ...



### [LCOS, IRR, and NPV: Key Indicators for Evaluating Energy Storage ...](#)

IRR measures the return on investment for energy storage projects and represents the average annual rate of return, resulting in a net present value of zero. It helps assess the

### [Cost Projections for Utility-Scale Battery Storage: 2025 Update](#)

In this work we describe the development of cost and performance projections for utility-scale lithium-ion battery systems, with a focus on 4-hour duration systems. The projections are developed from an ...



### [Energy Storage Cost and Performance Database](#)

DOE's Energy Storage Grand Challenge supports detailed cost and performance analysis for a variety of energy storage technologies to accelerate their development and deployment.



### [Energy Storage Feasibility and Lifecycle Cost Assessment](#)



To evaluate the technical, economic, and operational feasibility of implementing energy storage systems while assessing their lifecycle costs. This analysis identifies optimal storage technologies, quantifies ...



### **Estimation of Internal Rate of Return for Battery Storage Systems with**

This paper assesses the profitability of battery storage systems (BSS) by focusing on the internal rate of return (IRR) as a profitability measure which offers advantages over other frequently ...



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