

# Which one has a better future battery factory or pack factory





## Overview

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How can a battery factory become a competitive market?

Optimizing cell factories for next-generation technologies and strategically positioning them in an increasingly competitive market is key to long-term success. Battery cell production capacity globally could exceed demand by as much as twofold over the next five years, making operational efficiency essential to competitiveness.

What is the battery cell factory of the future?

The battery cell factory of the future addresses the challenges of cost optimization through improvements in four dimensions. (See Exhibit 3.) Each dimension encompasses a variety of innovative measures, spanning different levels of technological maturity. (See “Technology Maturity Levels.”) Research Phase.

Who makes the best battery packs?

BYD is another heavyweight in the world of battery packs. With a 15% market share and 192 GWh of shipments, they’ve cemented their position as one of the top 10 power battery cell manufacturers. What sets BYD apart is their versatility. From electric vehicles to energy storage systems, their batteries are everywhere.

How will the factory of the future impact battery production?

We estimate that the factory of the future will reduce conversion costs in battery cell production by 20% to 30% from the 2024 baseline. (See Exhibit 5.) Cost savings can be achieved across the entire production process, with the most significant impacts on electrode production. The economic impact in specific cases depends on several factors:



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