

A fast track to building your own fully optimized battery factory

So you've decided to build a gigafactory? You'll need the proper tools and infrastructure.

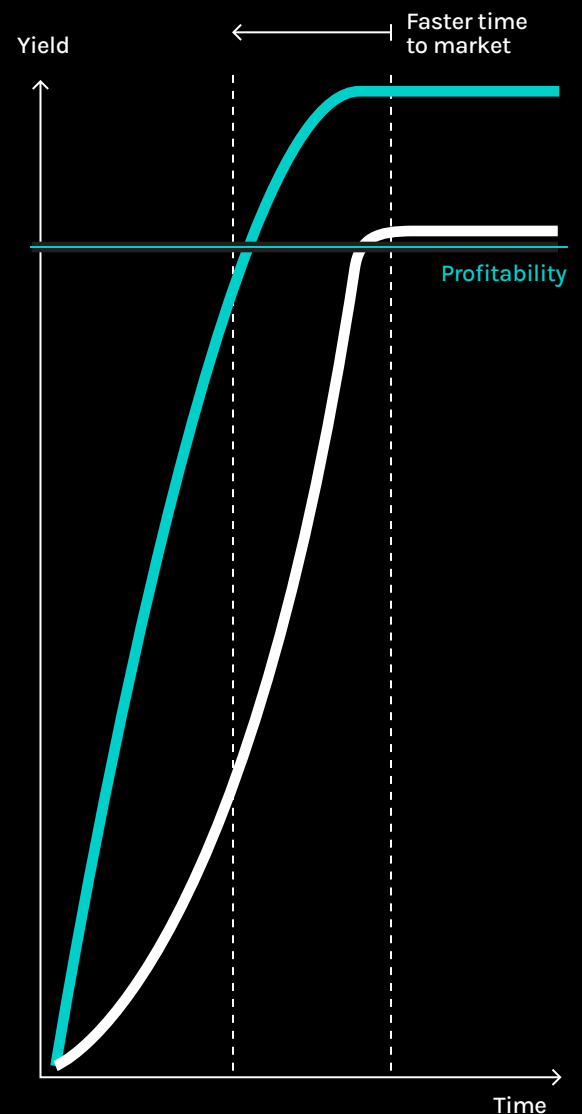
First thing to know: You should be thinking in terms of terafactories - and you'll definitely want more than one. Automotive OEMs plan to introduce nearly 500 new EV models in coming years, and experts predict a dramatic battery shortage as a result. Current manufacturing capacity will supply about 10 percent of the promised fleet - and materials will be in increasingly short supply. You'll thank yourself later for building excess battery capacity now.

The next thing to know: Status quo testing and production methods are excruciatingly slow and

ACCELERATING TO FULL PRODUCTION

Enterprise Battery Intelligence can greatly reduce the time it takes for a new factory to reach full production yield - translating to faster product launches and billions of dollars in increased revenue.

- Typical path to full production yield
- EBI path to full production yield



EBI ACCELERATES YOUR PRODUCTION PROCESS

Large-scale data analysis can speed up every part of battery development, from materials testing through production. Here's a look at how EBI optimizes your factory processes.

immature. Getting a terafactory up and humming means developing and scaling best practices to increase testing and manufacturing throughput and yield while also minimizing defects. It all comes to gathering, processing, and understanding data.

Much of today's battery development processes revolve around intuition, guesswork, and waiting. Battery testing and iteration feedback loops are arduous, highly manual, and slow. It can take weeks or even months to gather and analyze data for defects. And the longer it takes to discover a flaw, the more it gets replicated in subsequent output. A high slurry viscosity or uneven electrode coating density can translate to scrapping millions of batteries. Even worse, it can delay product launches, or lead to sweeping recalls.

The Voltaiq EBI platform tightens feedback loops by automating data gathering and analysis. We provide battery engineers the tools to correlate battery yield at one end of the line to materials inputs on the other, enabling them to tweak recipes and production equipment settings on the fly. Think of it as a real-time view of a battery's chemistry and behavior, one that allows your team to quickly correct errors and optimize output. It translates to a faster time to market, increased output, fewer defects, and billions of dollars in increased revenue. ●

