

Automotive semi solid battery market

What will EV battery demand look like in 2024?

EV battery demand continues to grow, and is expected to reach more than 3 TWh in 2030 in the STEPS, up from about 1 TWh in 2024. While electric cars will remain the primary driver of battery demand, other modes are set to gain market share.

Is Blue Solutions a semi-solid-state battery?

French company Blue Solutions already has a semi-solid-state battery using lithium metal anode and a gel electrolyte that requires the battery to be heated during use, and to invest more than EUR 2 billion in a factory in France by 2030. See IEA (2025) for deeper insights into how this landscape is evolving.

Are EV batteries still a major driver of battery demand?

Electric cars remain the main driver of battery demand, but demand for trucks nearly doubled. Battery demand in the energy sector, for both EV batteries and storage applications, reached the historical milestone of 1 TWh in 2024. Demand for one average week alone in 2024 exceeded the total demand for an entire year just a decade earlier.

Will EV battery demand increase in 2022?

Nevertheless, their share has doubled since 2022, underpinned by sustained growth in Southeast Asia, India and Brazil. EV battery demand continues to grow, and is expected to reach more than 3 TWh in 2030 in the STEPS, up from about 1 TWh in 2024.

Where are EV batteries made?

In the United States, the vast majority (three-quarters) of EVs equipped with LFP batteries are produced domestically, whereas in the European Union nearly two-thirds are imported from China.

How will electric trucks affect EV battery demand?

Notably, the contribution of electric trucks to EV battery demand triples by 2030 to reach more than 8%, up from nearly 3% in 2024. Battery demand is also set to become more geographically diverse.

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