



United states battery technologies

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The Breaking It Down series aims to inform and inspire people by putting advanced manufacturing technologies and processes into simpler terms.

AnatomyUsesSupportGet Involved

With electric vehicles (EVs) that get us places, cell phones that connect us to others, and utility-scale electric grid storage that powers our homes, batteries are all around us.

Batteries can be either mobile, like those in electric vehicles, or stationary, like those needed for utility-scale electricity grid storage.

As the nation transitions to a clean, renewables-powered electric grid, batteries will need to evolve to handle increased demand and provide improved performance in a sustainable way.

When was the first battery invented?

You've probably heard of lithium-ion (Li-ion) batteries, which currently power consumer electronics and EVs. But next-generation batteries--including flow batteries and solid-state--are proving to have additional benefits, such as improved performance (like lasting longer between each charge) and safety, as well as potential cost savings.

These next-generation batteries may also use different materials that purposely reduce or eliminate the use of critical materials, such as lithium, to achieve those gains.

The components of most (Li-ion or sodium-ion [Na-ion]) batteries you use regularly include:

Solid-state batteries use solid electrolyte solutions, which don't need a different separator. That makes them safer because they are less prone to leakage from damage or swelling in hot temperatures.

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