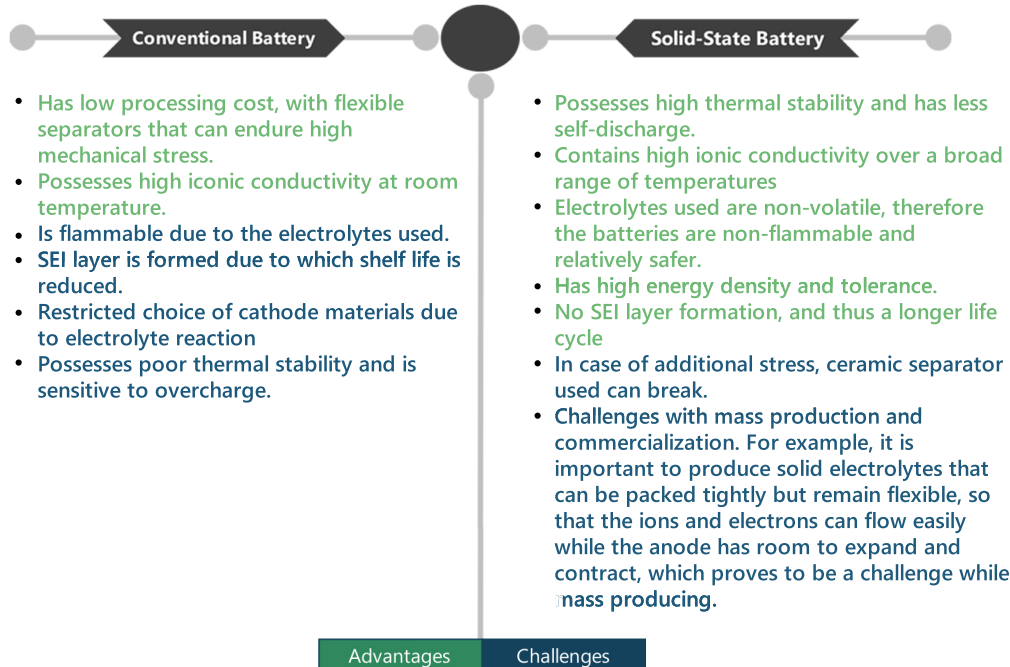
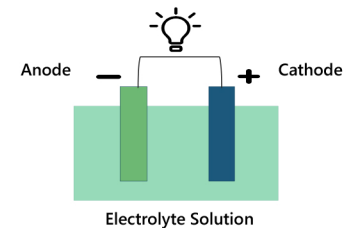
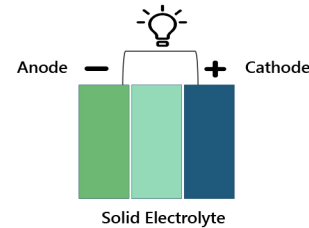


Solid-State Batteries – An Alternate to Conventional Batteries?

Solid-state batteries use solid electrodes/electrolytes instead of liquid or polymer gel electrolyte. Both conventional lithium batteries and solid-state lithium batteries are composed of lithium and other doping materials; the difference just lies in the electrolyte. Since solid state batteries are not flammable, therefore there is no need to have safety components, enabling more space to put more active materials which increases the battery capacity.

For energy storage, this opens the possibility for attaining safe and high energy density in conventional and new applications. However, its practical realization and commercialization is still a challenge due to underlying material and cell level issues.



Companies Focusing on Solid State Batteries:

- Quantum Scape
- Solid Power
- Brightvolt
- Factorial Energy
- Ilika
- Toyota Motor Corp