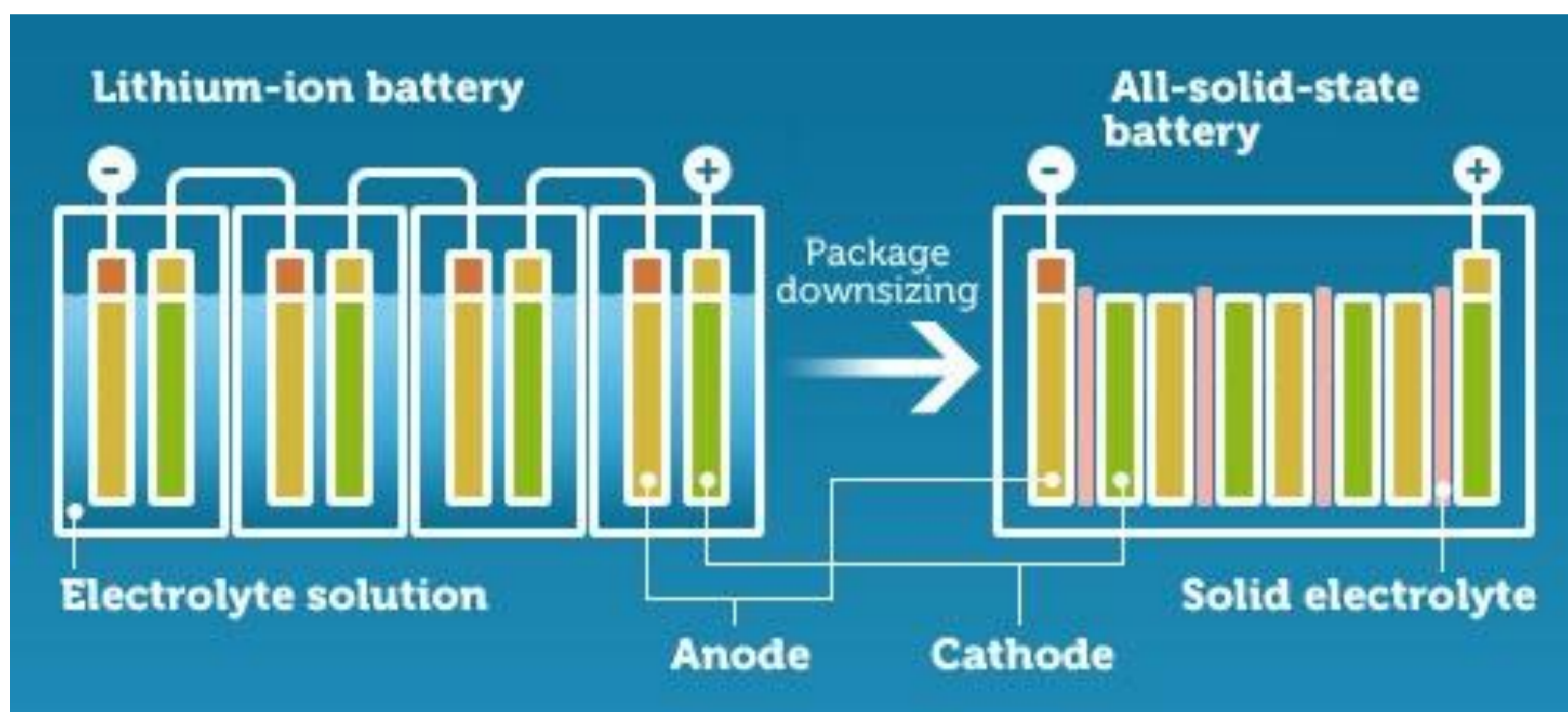


Solid State Batteries

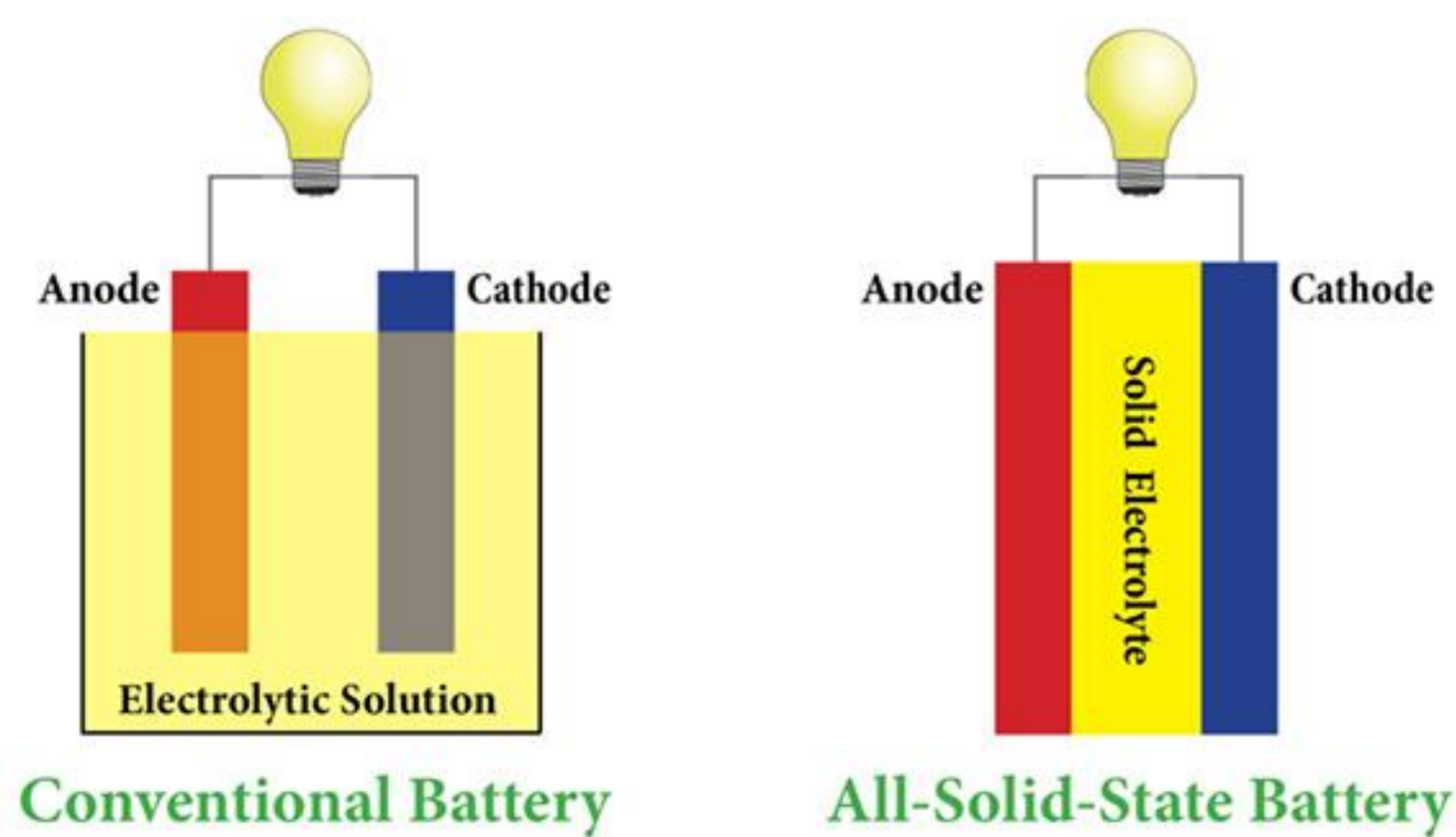
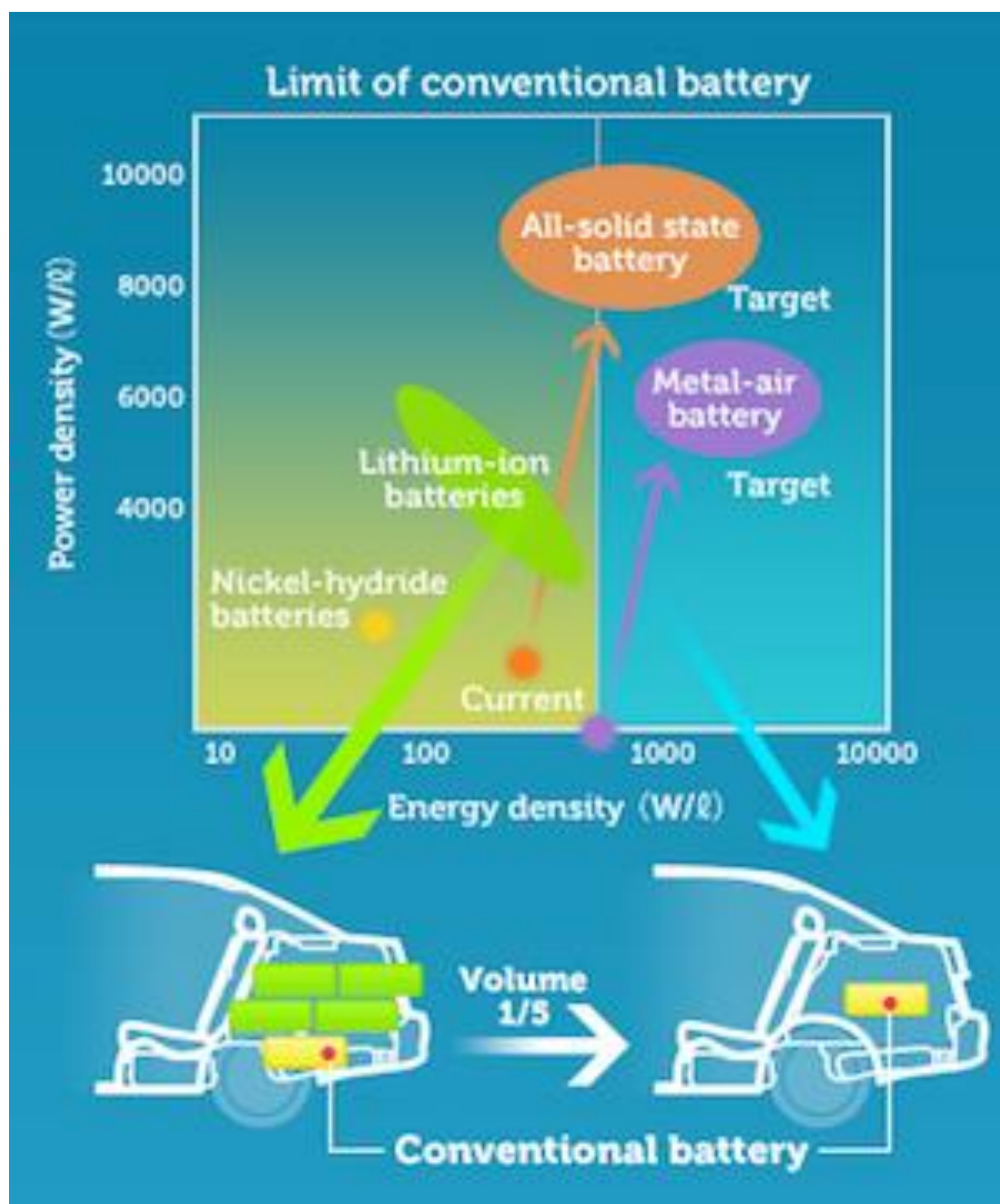
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 MBA Sustainable Mobility Management

Solid State Batteries will develop a completely new paradigm in energy storage for electric vehicles that could revolutionize the electric vehicle industry.



Solid State technology is a new battery technology based on combining a high-capacity cathode with a high capacity anode and in combination with a high ionic conductivity solid separator. While compared to traditional lithium ion batteries contain liquid electrolytes.

Increase in the energy density due to the thin separator barriers whereas liquid cells require large separators. Solid-state batteries can pack in twice as much energy as Li-ion. Solid-state technology can decrease the separators down to 3-4 microns each, a roughly 7-fold space saving just by switching materials.



Benefits:

Safety: less risk of fire

Performance: smaller, higher capacity withstanding high operating temperature & ultra fast charging with longer life span

Cheaper: 30% lower cost by 2020