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Energy storage lithium battery specific energy range

Overview

Quick Answer: The energy density of a lithium-ion battery typically ranges from 150–250 Wh/kg (gravimetric) and 300–700 Wh/L (volumetric). This metric shows how much energy a battery stores per unit weight or volume, directly affecting EV driving range and device runtime. Part 1.

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Today’s lithium ion batteries have an energy density of 200-300 Wh/kg. I.e., they contain 4kg of material per kWh of energy storage. Technology gains can see lithium ion batteries’ energy densities doubling to 500Wh/kg in the 2030s, trebling to 750 Wh/kg by the 2040s, and the best possible energy.

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