



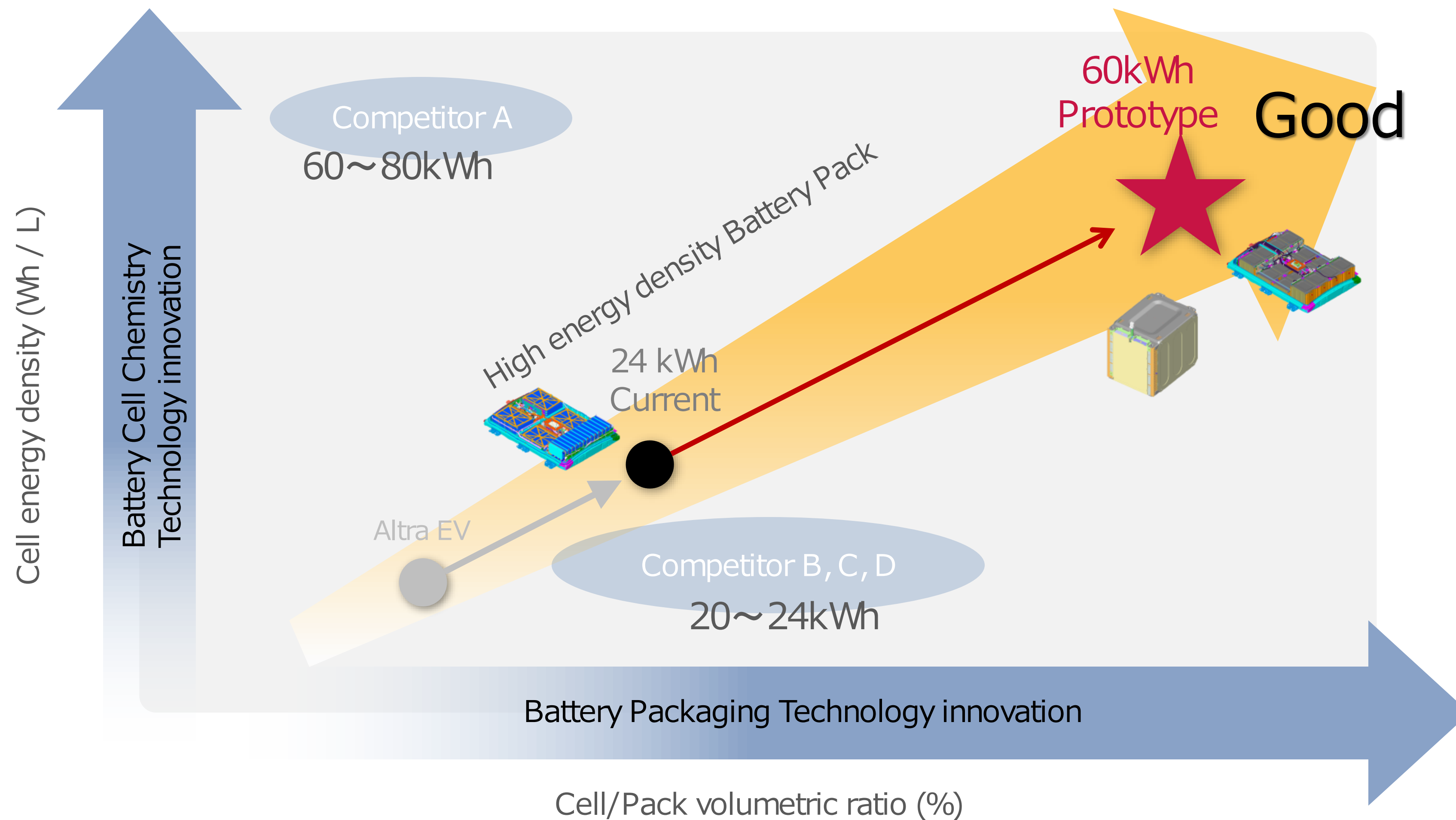
# High Energy Density Battery

Commitment to Continuous Improvement in Battery Lifecycle

**NISSAN**

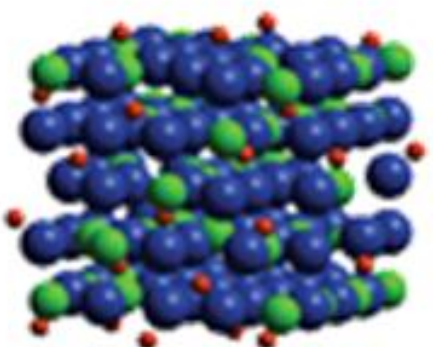
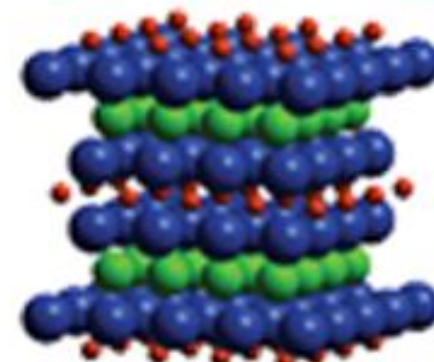
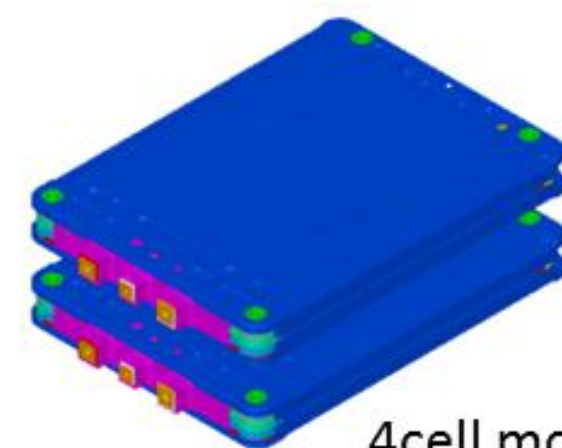
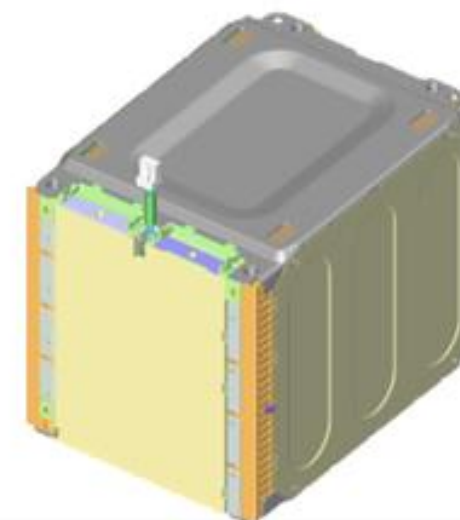
# High energy density roadmap

Nissan optimized chemistry and packaging technology delivers unsurpassed cell energy density and cell/pack volumetric ratio



# Double-Optimized Construction

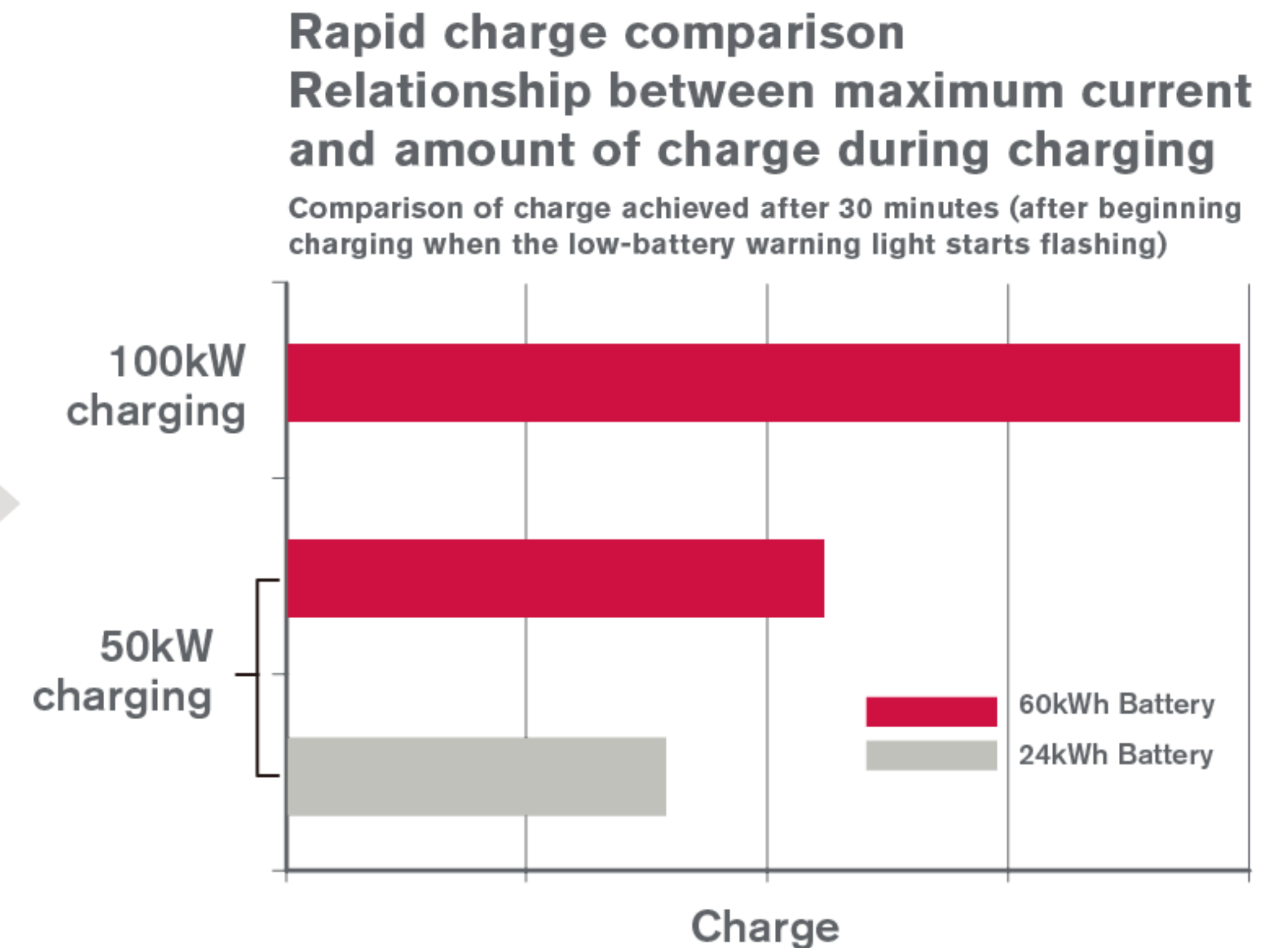
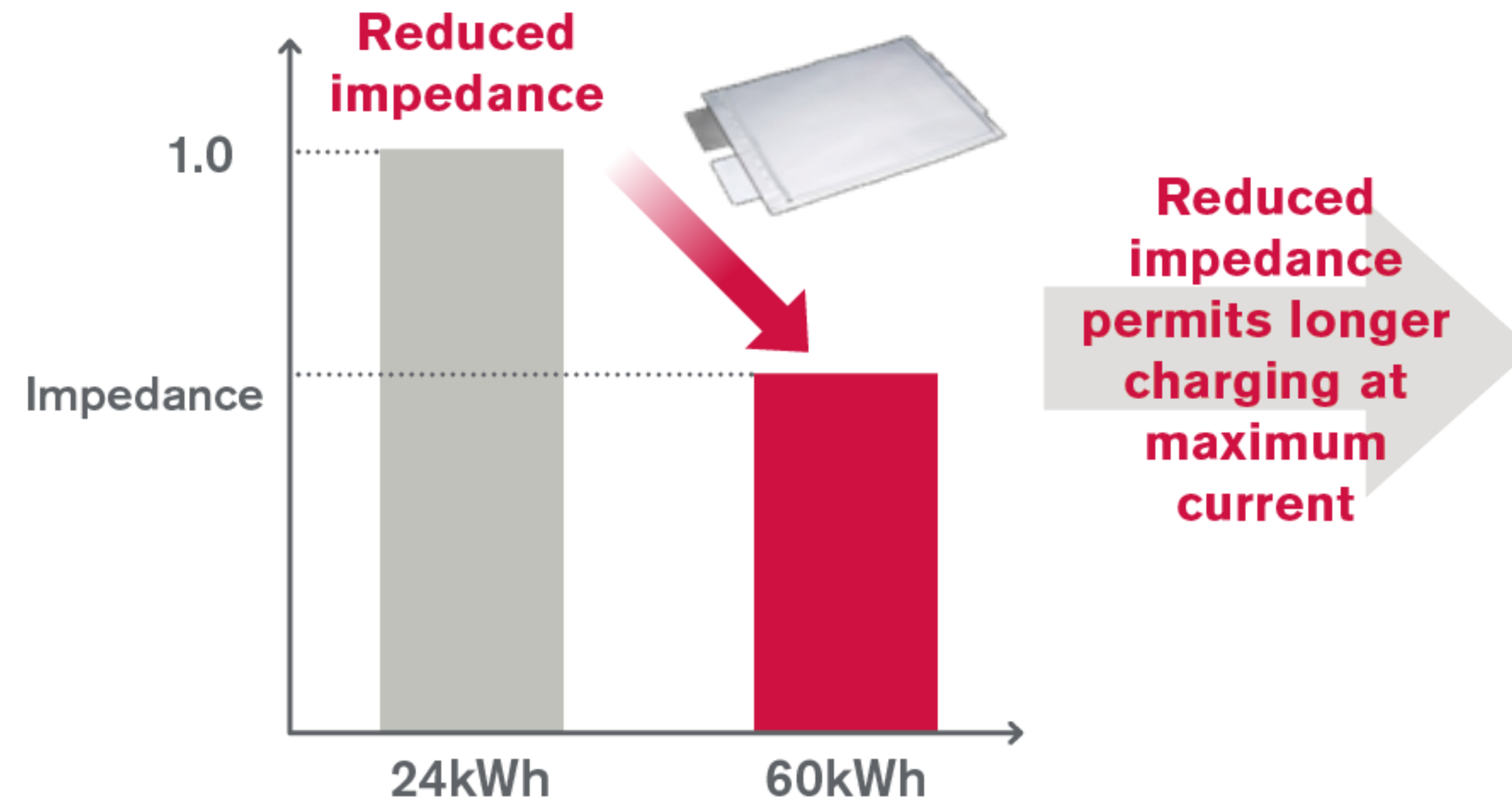
- Chemistry (battery cell chemistry technology innovation)
- Flat Packaging (battery packaging technology innovation)

		24kWh Current	60kWh Prototype battery
Electrodes & Cell	Cathode	<div><div>MnNi</div><div></div></div>	<div><div>NMC</div><div></div><div><div>Li</div><div>Metal</div><div>Oxygen</div></div></div>
	Anode	<div><div>Gr</div><div>Li acceptance improve</div></div>	
Stack / Module		<div><div></div><div>4cell module</div></div>	<div><div></div><div>Multiple cell In High density stack</div></div>



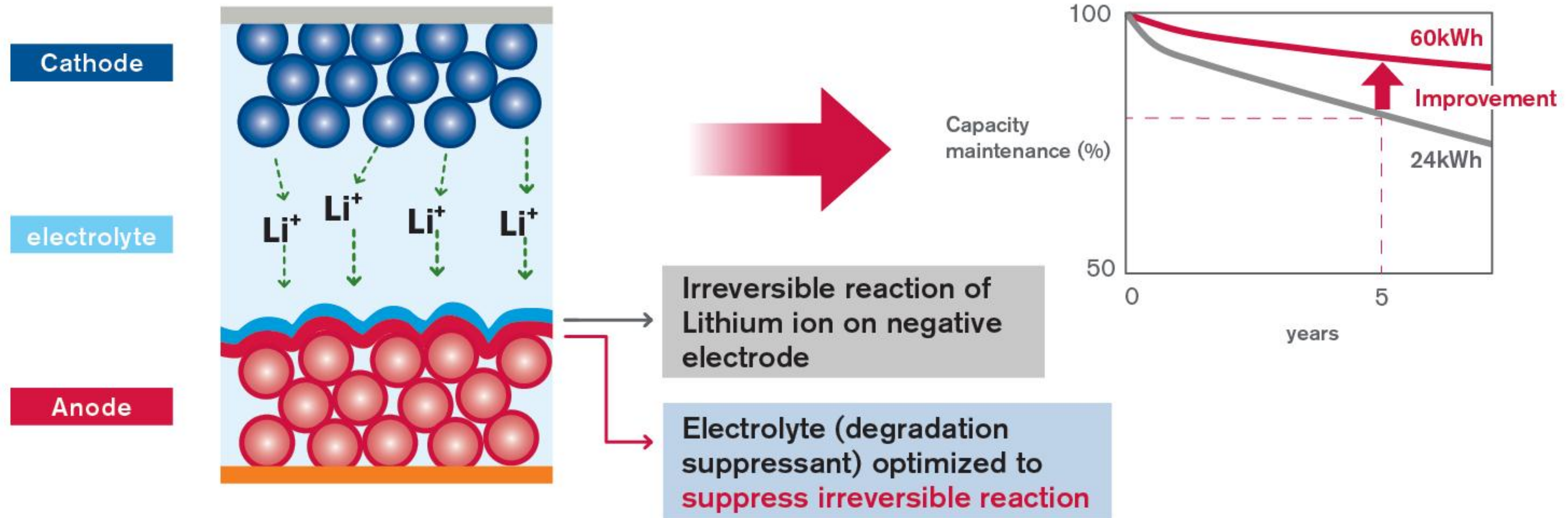
# Faster charging

- Revised electrode material and increased cell quantity reduce impedance to enhance charging performance and enable high output charging for double the charge in 30 minutes



# Longer Service Life

- Along with revised electrode material, optimized electrolyte suppresses performance drop.
- Suppressed lithium corrosion for improves durability





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