

Supplementary Information

Analysis of critical aspects in Al-ion battery technology

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Table S1. Energy density, life cycle, specific power, safety and battery cost data for Al-ion, Li-ion and Lead-Acid batteries.

Properties	Al-ion Battery	Li-ion Battery	Lead-Acid Battery
Energy density (Wh kg ⁻¹)	65 ¹	180 ²	40 ²
Life cycle (times)	20000 ³	3600 ⁴	500 ⁴
Specific Power (kW kg ⁻¹)	4.36 ¹	1.05 ⁵	0.25 ²
Safety	High	Medium-Low	Medium-High
Battery Cost (USD KWh ⁻¹)	900	270 ⁴	150 ²

References

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