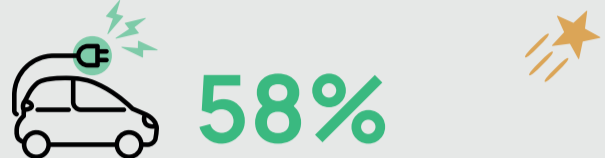


Towards a green transition: An experts' overview on 5th Generation Batteries

*These are the results of a survey that gathered 50 experts' perspectives on next generation batteries and green transition.



58%

Most experts believe that **EVs play a crucial role** in achieving low carbon mobility and reducing the environmental effect of internal combustion engine (ICE) vehicles.

40%

of respondents expressed **uncertainty**, indicating that EVs could potentially contribute to low carbon mobility if some challenges are addressed.

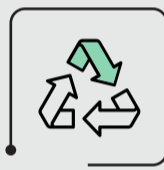
2%

of participants maintain that EVs do not offer a solution for green transportation.

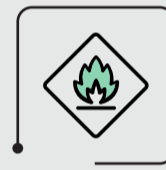
3 main limitations of current commercial batteries



01. Reliance on CRMs & critical environmental impacts

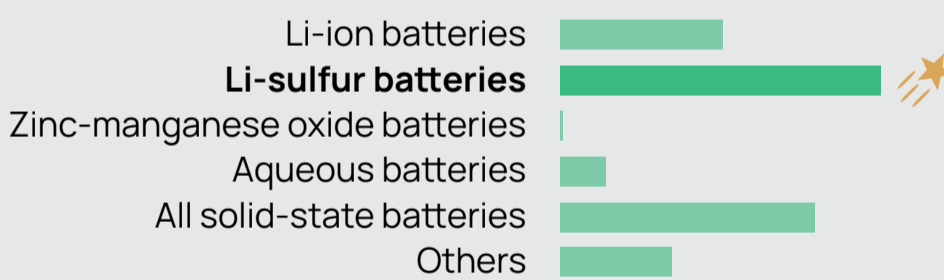


02. Poor recyclability of materials



03. High flammability

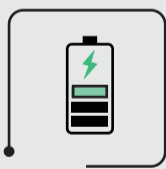
Most promising next generation battery for EVs



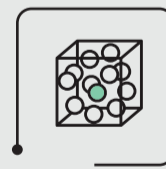
3 most important advantages of sulfur batteries



01. Lower price of materials

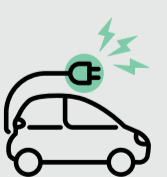


02. Higher theoretical capacity



03. Higher energy density

Most promising potential uses of sulfur batteries



38.89% Electric vehicles



13.89% Heavy vehicles



27.78% Stationary energy storage



11.11% Airplanes

Around 40% of experts view sulfur batteries as promising for EVs due to their **lightweight** and **high theoretical energy density**, offering increased **storage capacity** and **extended range**.