

# How environmentally friendly are batteries with no rare or critical materials?

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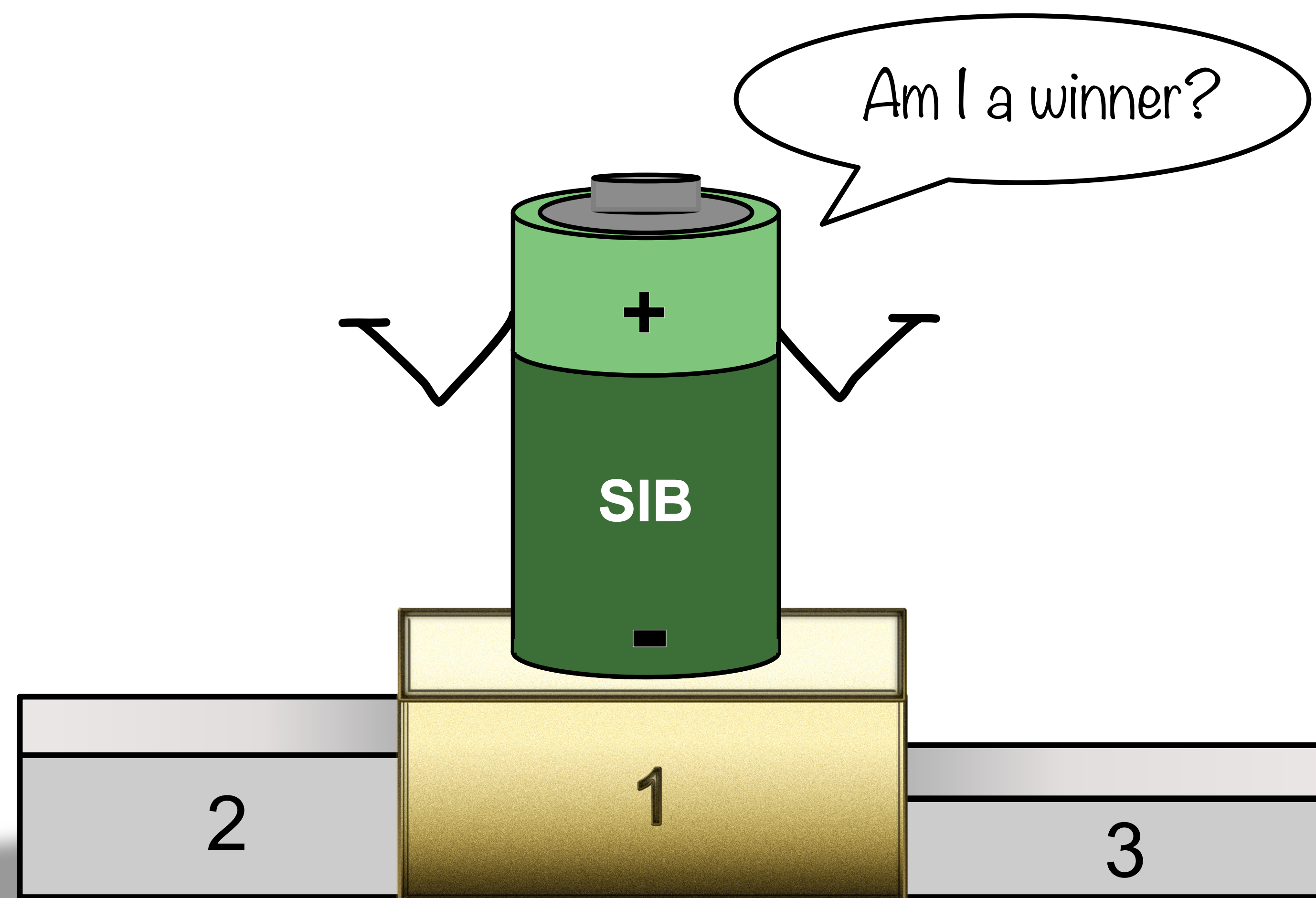
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Lithium-ion batteries (LIBs) are today's dominant rechargeable battery technology.

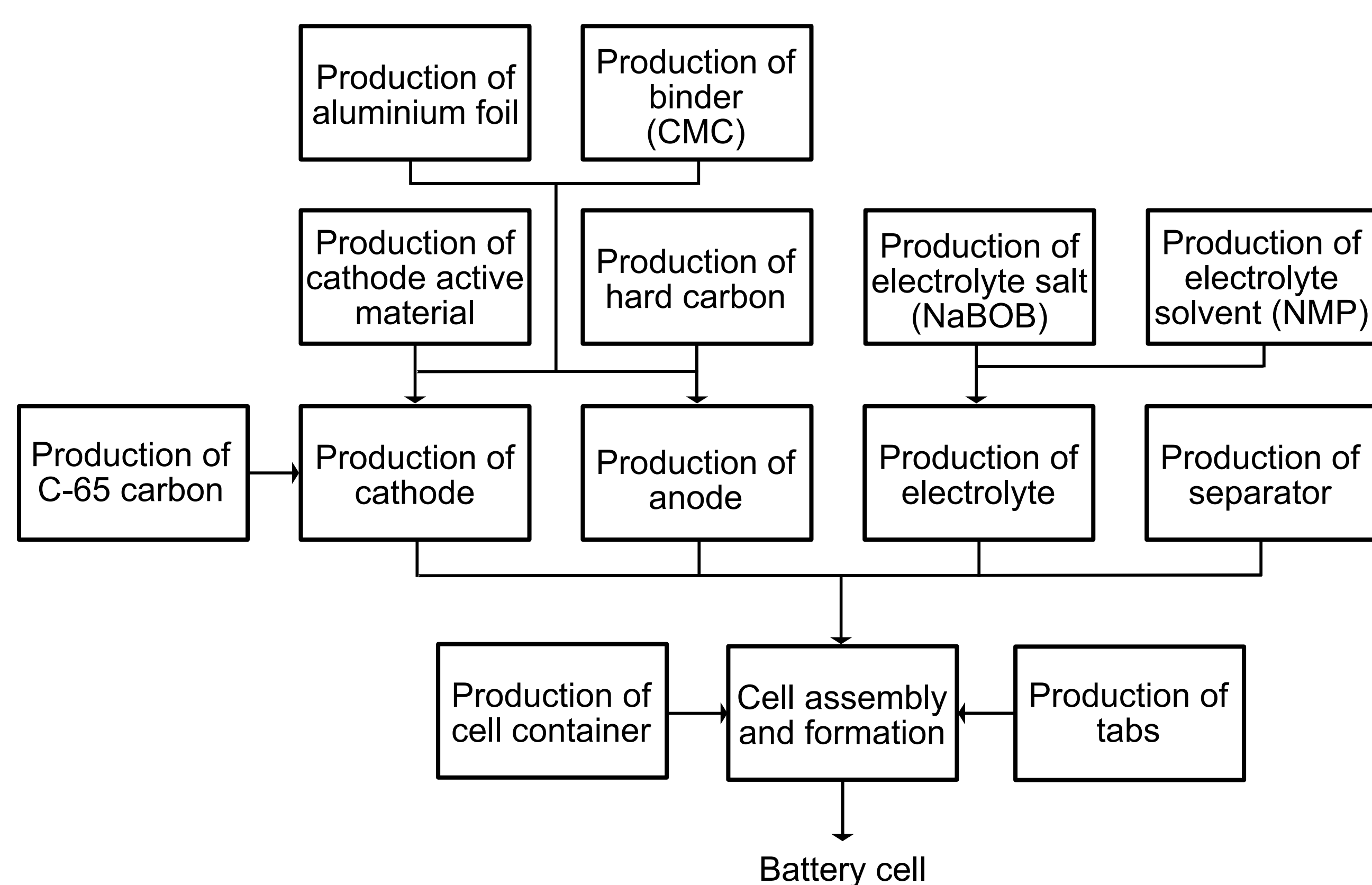
LIBs are superior regarding technical performance, but many lithium-ion technologies contain rare and critical materials, such as lithium, cobalt and graphite.

Consequently, battery technologies with less rare and critical materials have a clear role in the future.

But what about the impact results?  
Well, stay tuned!



The sodium-ion battery (SIB), a next generation battery, can be made to contain only abundant and readily available materials.



We assess the environmental and resource impacts of a SIB with abundant materials only, produced at large scale.

A prospective LCA has been initiated, where we combine data from several sources, including a SIB cathode producer (see the initial cradle-to-gate flowchart to the left). Climate change impacts as well as mineral resource use will be in focus.