

Norway solid-state batteries

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Today's electric cars use large lithium-ion batteries, which work fairly well.

They can store a fairly high amount of energy in relation to their weight. They also don't need to be completely discharged each time before being recharged, so you can usually put the car on charge when it suits you without worrying about whether you are damaging the battery.

But these batteries still have low energy density for emerging applications and electric vehicles. They are also both unstable and flammable, so it is perhaps not so surprising that the search is on for alternatives.

"Solid-state batteries might be the future for tomorrow's electric cars," Daniel Rettenwander says. He is a professor at NTNU's Department of Materials Science and Engineering.

Rettenwander is part of a research team studying how solid-state batteries can be charged much faster, and become safer and easier to recycle.

The findings may be important as part of the effort to get more people to use solid-state batteries, and as a technology that can later be commercialised.

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Web: <https://kary.com.pl/contact-us/>

Email: [energystorage2000@gmail.com](mailto:energystorage2000@gmail.com)

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