

Lithium-ion battery technology iceland

Icelandic firm Nanom (previously Greenvolt) has raised \$3 million in seed funding in their goal to apply nanotechnology to existing nickel-iron and lithium-ion batteries. In doing so, the company claims to add 9x the energy density, recharging rates and lifecycle capabilities to the century old technology.

The process is said to happen all without any massive disruption to the battery making process, "Just mix these nanoparticles into the battery chemical slurry and voil?. The results are even more dramatic in modern Lithium-Ion batteries - and just as easy-to-implement."

The funding arrives via an EU Green Deal funding, Iceland Venture Studio, and Village Global, whose network includes Bill Gates, Mark Zuckerberg, Jeff Bezos, and Reid Hoffman.

Looking beyond just battery technology, Nanom is reporting that their tech will enable any structure of surface to become an energy storage device. In the prototyping phase, Nanom created an electric boat where the hull of the structure became the power source. To put that into perspective, 15 metres of this construction would hold the same amount of juice of 5 Teslas.

"We are beyond excited to announce Nanom as a company and to emerge from stealth with such exceptional investors who have seen the unmatched potential of our technology to transform the world in such a profound way," said Armann Kojic, CEO of Nanom. "Imagine a wall in your house becoming a giant, safe battery that takes you off the grid. We can enable all of that today and in a way that is green for the planet and better than the current-generation of batteries on the market."

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There has been a lot of talk about batteries being an integral part of an electric vehicle's structure, but a company called Nanom (previously known as Greenvolt), founded and based in Iceland, is proposing an idea that is far more advanced. It wants to integrate batteries into the body/chassis of vehicles, similarly to what it did with its 2019 electric boat, the Magnea, that had 500 kWh-worth of capacity built into its hull.

The principle behind this idea is not new - it's actually an evolution of the nickel-iron battery shown by Thomas Edison way back in 1901.

What Nanom did was to swap out the big nickel and iron electrodes inside the battery with nanoparticles of the same two metals. The company expects its batteries to last for as many as 50,000 charge-discharge cycles, far more than any current lithium-ion battery tech allows - it is targeting a ninefold durability increase over



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today"s batteries.

Intrigued? Well, you should be, because while this is still in the idea stage, Nanom does already have the technology to make it work. The tech itself is, as you might have guessed by the company"s name, reliant on nanotechnology. According to Engadget, with the use of Nanom"s new batteries built into the body of the car, it would be possible to reduce the weight and improve efficiency of today"s EVs.

Now all this sounds a bit too good to be true - if this technology was as good as they say, why hasn"t Nanom been bought for billions by an established automotive player or why isn"t it already supplying its tech to the automotive industry.

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