

## Sugar Battery Technologies

A sugar battery is an enzymatic biofuel cell type rechargeable battery that is sugar-based. In 2014, researchers at Virginia Tech developed a battery that is run on sugar and closely competes with lithium-ions.

They have an energy storage of 596 Ah kg<sup>-1</sup>, which is more than lithium-ions. If these batteries are proven, they could be used as soon as three years from now.<sup>[1]</sup> These batteries can be used to power a cell phone for ten days, unlike the current li-ions that can only be used for one day.<sup>[2]</sup>

These biobatteries are cheaper to make, refillable, environmentally friendly and nonflammable.<sup>[3]</sup>

## References

1. "Re-chargable sugar-based battery outperforms lithium ion, researchers say", *Canadian Manufacturing*, 22 January 2014
2. New bio-batteries running on sugar may replace lithium-ion batteries, NDTV Gadgets, 3 March 2014
3. Sugar Batteries Runs 10x Longer Than Lithium-ion Batteries, International Business Times, 31 August 2014, Sarmistha Acharya

