

## SolarTech Power Solutions

# Georgia Flow Battery



## Overview

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Georgia Tech Research Corporation is developing an alkali hydroxide triple phase flow battery (3PFB) to enable reversible operation of ultrahigh energy density battery chemistries. Does Georgia have a new flow battery?

A new flow battery is just the latest sign that Georgia is gearing up to leading the energy transition, ESG or no ESG. A new flow battery is just the latest sign that Georgia is gearing up to leading the energy transition, ESG or no ESG. Sign up for daily news updates from CleanTechnica on email. Or follow us on Google News!.

Are flow batteries a solution?

The all-Georgia Tech research team published their findings in the paper, “ A Sub-Millimeter Bundled Microtubular Flow Battery Cell With Ultra-high Volumetric Power Density ,” in Proceedings of the National Academy of Sciences. Flow batteries offer a solution.

What is a flow battery?

Flow batteries offer a solution. Electrolytes flow through electrochemical cells from storage tanks in this rechargeable battery.

Are flow batteries the future of energy?

Solar and wind power are growing faster than ever, according to the International Energy Agency. Making these intermittent energy sources a regular part of the grid without causing instabilities will require batteries to store energy on a large scale. Flow batteries are a promising technology for that.

How much does a flow battery cost?

Flow batteries can, in theory, be easily scaled up to megawatt-hours by increasing the size of the tanks. They can also have longer lifetimes and be safer than lithium ion. They remain costly, though, with a capital cost of

around US \$800 per kilowatt-hour, more than twice that of lithium-ion batteries.

Are flow batteries a new thing?

Flow batteries are not a new thing. The basic technology dates back to the 1970s, but earlier iterations were bedeviled by corrosion, among other issues. Flow batteries were also a technology in search of an application, up until the wind and solar industries began to gather steam in the early 2000s.

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