

## SolarTech Power Solutions

# Sodium ion new energy storage



## Overview

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The technology behind sodium-ion batteries just got a whole lot more advanced thanks to one small tweak in their design. Scientists at the University of Surrey discovered that by charging traditional approaches to using nanostructured sodium vanadate hydrate (NVOH), a pre-existing sodium-based.

Conversely, sodium-ion batteries provide a more sustainable alternative due to the tremendous abundance of salt in our oceans, thereby potentially providing a lower-cost alternative to the rapidly growing demand for energy storage. Currently most sodium-ion batteries contain a liquid electrolyte.

A research team at the University of Surrey has demonstrated a significant improvement in sodium-ion battery performance by preserving water content in a key electrode material, challenging long-standing assumptions in the field. The team investigated nanostructured sodium vanadate hydrate (NVOH).

CU Boulder researchers are exploring the use of sodium-ion batteries as an alternative to lithium-based energy storage. While sodium is abundant and could help address supply chain issues linked to lithium scarcity, current

sodium-ion batteries have not performed as well as lithium-ion batteries.

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