

This breakthrough Sodium Ion Battery Materials Project has the potential to revolutionise the energy storage industry by providing a safer, cheaper, and more environmentally friendly alternative to lithium-ion batteries.

"As Australia pursues its renewable energy targets, this long-duration energy storage solution enables a higher penetration of renewables while stabilising the electricity grid," Mr Buschkuehl said.

A new trial at Sydney Water's Bondi sewage pumping station will soon be storing renewable energy through the use of sodium-ion batteries, a cheaper alternative to the traditional lithium-ion batteries in use around the world.

PowerCap delivers safe and long-lasting energy storage for an array of applications, including grid stabilisation and off-grid systems as owed to a proprietary in-house Battery Management System (BMS) and Energy Management System.

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The core focus of the Smart Sodium Storage System ( S 4) project was to develop a sodium -ion battery chemistry and production capacity to bring the technology to pre-commercialisation in the energy storage marketplace. This includes the value -add components of integrating sodium -ion battery cells into 5 kWh modules with built -

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Providing at least six hours of energy storage, a 1.5MW NAS battery at Swanbank would be one of the first in Queensland and the largest grid-connected sodium sulphur battery in...

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