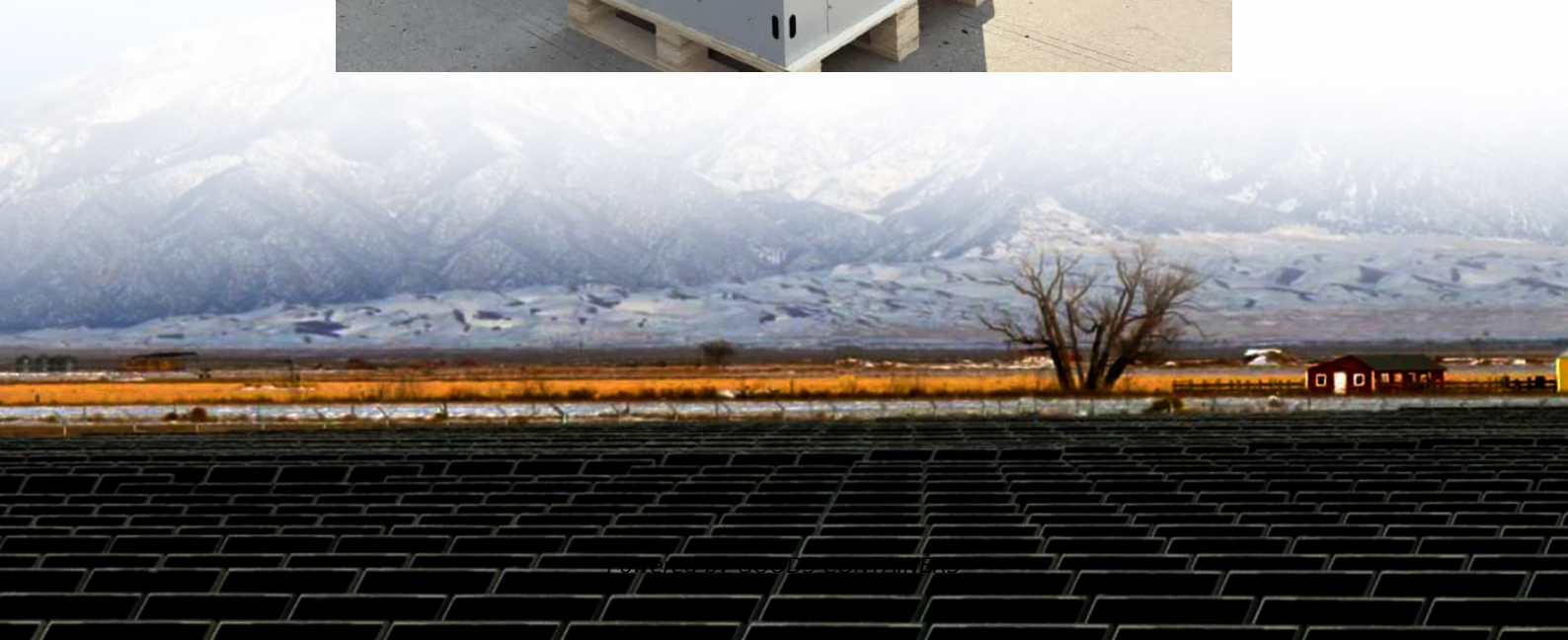


# **Korea Energy Storage Supercapacitor Company**





## Overview

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Could a supercapacitor be the next generation of energy storage?

A research team led by Dr. Bon-Cheol Ku and Dr. Seo Gyun Kim from the Carbon Composite Materials Research Center at the Korea Institute of Science and Technology (KIST), along with Professor Yuanzhe Piao of Seoul National University (SNU), has developed a high-performance supercapacitor that may represent the next generation of energy storage.

What is a next-generation supercapacitor?

Researchers have created a next-generation supercapacitor by engineering a unique nanoscale fiber structure combining carbon nanotubes and a conductive polymer. This innovation significantly enhances energy storage performance while paving the way for faster, more durable, and flexible energy systems. (Artist's concept.) Credit: SciTechDaily.com.

Can energy storage deliver high power and high capacity?

Credit: SciTechDaily.com Developing next-generation energy storage technologies that can deliver both high power and high capacity at the same time.

Are supercapacitors better than traditional batteries?

Supercapacitors charge faster and offer higher power density than traditional batteries, with minimal performance loss even after tens of thousands of charging cycles. However, their lower energy density limits how long they can operate, which has made them less practical for extended-use applications like electric vehicles and drones.



## Korea Energy Storage Supercapacitor Company

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To enhance energy storage potential, the researchers chemically combined CNTs, recognized for their exceptional conductivity, with the low-cost and easily processed polymer ...



**South Korean researchers develop high-performance supercapacitors**

...

South Korean researchers develop high-performance supercapacitors using carbon fibers  
Innovation in energy storage: South Korea advances supercapacitor technology ...



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