



FTMRS SOLAR

# North 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.

Is Korea's first self-charging energy storage device combining supercapacitors with solar cells?

Jeongmin Kim, Senior Researcher at the Nanotechnology Division of DGIST, states, "This study is a significant achievement, as it marks the development of Korea's first self-charging energy storage device combining supercapacitors with solar cells.

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 a solar charging supercapacitor save energy?

"Solar-powered charging: Self-charging supercapacitors developed." ScienceDaily. 241230131926.htm (accessed February 9, 2025). A research team achieves 63% energy storage efficiency and 5.17% overall efficiency by combining a supercapacitor with a solar cell.



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Solar powered self-charging supercapacitors ...

The combined system represents a key step toward commercializing self-charging energy technologies. "This study is a significant achievement, as ...

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Overcoming Long-Held Limitations: Korean Scientists Unveil ...

Jun 22, 2025 · Researchers have created a next-generation supercapacitor by engineering a unique nanoscale fiber structure combining carbon nanotubes and a conductive polymer. This ...

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Solar-powered charging: Self-charging supercapacitors ...

Dec 30, 2024 · A research team achieves 63% energy storage efficiency and 5.17% overall efficiency by combining a supercapacitor with a solar cell.

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Overcoming Long-Held Limitations: Korean ...

Jun 22, 2025 · Researchers have created a next-generation supercapacitor by engineering a unique nanoscale fiber structure combining carbon ...

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KIST Pioneers Next-Gen Energy Storage with Breakthrough Supercapacitor

May 9, 2025 · In a remarkable stride towards the future of energy storage, researchers from the Korea Institute of Science and Technology (KIST) and Seoul National University have unveiled ...

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Korean Researchers Unveil Advanced Energy ...

Jun 30, 2025 · To enhance energy storage potential, the researchers chemically combined CNTs, recognized for their exceptional conductivity, ...

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Solar powered self-charging supercapacitors introduced in Korea

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Korean Researchers Unveil Advanced Energy Storage ...

Jun 30, 2025 · To enhance energy storage potential, the researchers chemically combined CNTs, recognized for their exceptional conductivity, with the low-cost and easily processed polymer ...

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Korean Scientists Create Supercapacitor That ...

Jun 23, 2025 · Korean researchers have developed a breakthrough supercapacitor using carbon nanotubes and conductive polymers that ...

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Korean scientists build PV-powered supercapacitor with 35.5 ...

Jan 9, 2025 · Scientists in Korea have fabricated a solar-powered charging device that can reportedly achieve a power density of 2,555.6 W/kg and an energy efficiency of 63%. The ...

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KIST Pioneers Next-Gen Energy Storage with ...

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Korean scientists build PV-powered ...

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Korean Scientists Develop Next-Generation Energy Storage ...

Jun 23, 2025 · Korean researchers unveil a fast-charging, long-lasting energy storage breakthrough combining nanotubes and polymers for the future of clean energy.

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Solar-Powered Charging! Korea's First Self-Charging Supercapacitors

Dec 30, 2024 · - A joint research team from DGIST and Kyungpook National University achieves 63% energy storage efficiency and 5.17% overall efficiency by combining a supercapacitor ...

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Korean Scientists Create Supercapacitor That Finally Delivers ...

Jun 23, 2025 · Korean researchers have developed a breakthrough supercapacitor using carbon nanotubes and conductive polymers that combines high power with high energy capacity, ...

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