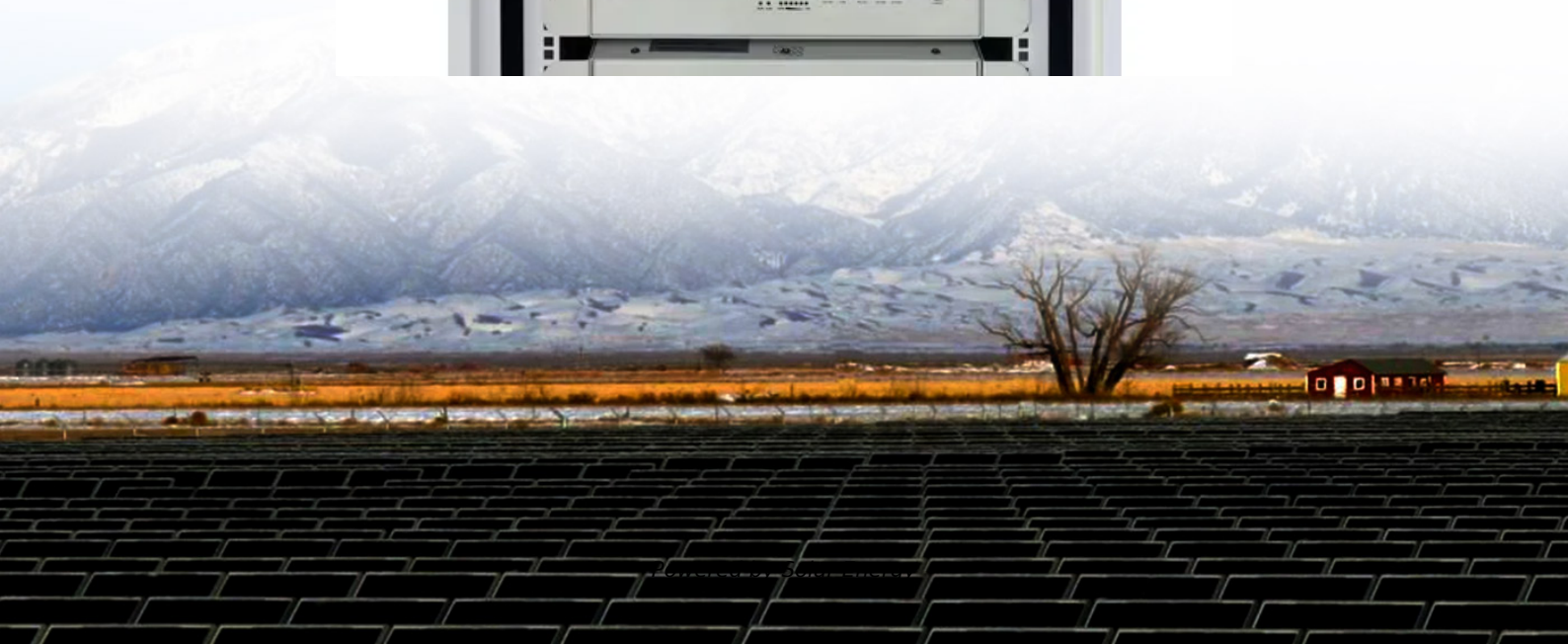


# Japan battery breakthrough initiative





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### Next-generation Storage Battery and Motor ...

In October 2020, Japan declared that it aims to achieve carbon neutrality by 2050, with the goal of reducing overall greenhouse gas emissions to zero by 2050. Carbon neutrality by 2050 cannot be realized through ordinary efforts.

### Toyota says solid-state battery breakthrough can halve cost and ...

Toyota has unveiled ambitions to halve the size, cost and weight of batteries for its electric vehicles following a breakthrough in its solid-state battery technology. The Japanese carmaker's



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### Toyota's all-solid-state EV battery plans get the green ...

Toyota also claimed to have discovered a "technological breakthrough" with all-solid-state EV batteries. Its first solid-state batteries are due out around 2028 with over 620 miles (1,000 km



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- ✓ All in one
- ✓ 100~215kWh High-capacity
- ✓ Intelligent Integration

### Research and Development of Novel Secondary Batteries in Japan

Third, to achieve a further breakthrough in secondary battery development, the VSI also focuses on two next-generation batteries, including magnesium (Mg) metal and lithium-oxygen (Li-O<sub>2</sub>) batteries. While promising, these approaches suffer from several fundamental and technical problems.

### Battery Innovation System of Japan

As an early technology leader, Japan began funding lithium-ion batteries, especially the development of solid-state batteries and certain types of alternative batteries. Total battery funding by NEDO between 2009-2022 (for Solid-EV and RISING 1, 2 and 3 projects) is estimated by ca. 58 billion yen. In the Battery Industry



### Research and Development Initiative for Scientific ...

The project involves collaboration among industry, academia, and government, addressing common foundational technologies from material development to battery design, prototyping, characteristic evaluation, and ...



## ALCA-SPRING: Paving the way for next-generation battery ...

An all-Japan research system that also aims to strengthen IP management for commercialization Batteries are crucial in powering many electronic devices, including ...



## Japan ups its game in domestic EV battery production

Japan is set to increase subsidies for electric vehicle (EV) battery production, committing up to USD\$2.4 billion to strengthen its battery supply chain. The funds will be ...

## Next-generation Storage Battery and Motor Development

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## Toyota's Next-Generation BEV Battery Development and ...

Toyota Motor Corporation (Toyota) announced today that the development and production plans for its next-generation batteries (performance version) and all-solid-state batteries were certified by the Ministry of Economy, Trade and Industry (METI) as part of the Japanese government's "Supply Assurance Plan for Batteries."



## Research and Development Initiative for Scientific Innovation of ...

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## Japan Investing \$2.4B to Boost EV Battery Production Capacity

Japan's government-backed initiative is expected to significantly increase the country's annual production capacity for storage batteries, boosting it by around 50%--from 80 gigawatt-hours ...

## Japan ups its game in domestic EV battery production

Japan is set to increase subsidies for electric vehicle (EV) battery production, committing up to USD\$2.4 billion to strengthen its battery supply chain. The funds will be distributed among key projects led by major corporations such as Toyota Motor, Nissan Motor, and joint ventures involving Panasonic Holdings, Subaru and Mazda Motor



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Japan's government-backed initiative is expected to significantly increase the country's annual production capacity for storage batteries, boosting it by around 50%--from 80 gigawatt-hours (GWh) to 120 GWh.



### ALCA-SPRING: Paving the way for next-generation battery ...

An all-Japan research system that also aims to strengthen IP management for commercialization Batteries are crucial in powering many electronic devices, including smartphones and tablets. In the lead-up to achieving carbon neutrality by 2050, the domestic and global markets for batteries are expanding, driven by the increasing demand for



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