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Toyota Motor Corporation
Mazda Motor Corporation

Aiming to Build Battery Ecosystem, Toyota and Mazda Start Tests of Energy Storage System Using Electrified Vehicle Batteries

Toyota Motor Corporation (Toyota) and Mazda Motor Corporation (Mazda) have started field tests of Toyota's Sweep Energy Storage System* at Mazda's Hiroshima Plant in Hiroshima Prefecture, Japan.

For the tests, the power system at Mazda's headquarters campus—the only power generation system operated by an automaker in Japan—and Toyota's system that utilizes batteries from electrified vehicles will be connected through their respective energy management systems. This will enable the verification of stable, high-quality, and efficient charging and discharging. In the future, the storage system will be used to regulate power supply and demand from renewable energy, which fluctuates depending on weather and time of day, contributing to carbon neutrality.

The tests are aimed to contribute to building a battery ecosystem, which is part of the seven mobility industry issues that the Japan Automobile Manufacturers Association is addressing across the industry. In support of stable procurement of critical resources and building a resilient supply chain, the battery ecosystem is aimed to sustainably reuse batteries in Japan, including electrified vehicle batteries.

Going forward, both companies will continue to take on challenges across the industry, focusing on a multipathway approach to achieve carbon neutrality and strengthen industry competitiveness.

*The system rapidly switches each battery's power flow on and off, even when new batteries are connected to degraded or different capacity batteries.

Aim for Sweep Energy Storage System Field Tests

