



Honda lithium battery energy storage technology research



Overview

To address the energy-environment dilemma, we developed self-standing composite electrodes for Li-ion batteries without electrochemically inactive metal current collectors, additives, and binders, increasing energy density by up to 40%. As an automaker, we are developing all-solid-state battery technology with an eye toward mass-production, which will enable us to install them to our vehicles and offer high-performance EVs to our customers at affordable prices. Unlike conventional lithium-ion batteries, these next-generation units promise higher energy density, faster charging. The rapidly growing battery market demands both high energy density and waste-management solutions for the anticipated global annual battery waste of about two million metric tons. Honda revealed on Thursday that it has launched a demonstration production line for solid-state battery cells at its R&D center. Tokyo, Japan, January 23, 2023 – Honda Motor Co. (Honda) and GS Yuasa International Ltd. The two companies will discuss specifics with the goal of.



Article Content

Honda promises solid-state batteries that could ...

Honda's new facility could drive breakthroughs in solid-state batteries for electric cars, ultimately leading to batteries with more than ...

All-solid-state battery technology□Honda Technology□Honda

Based on our initial achievements, we will move on to the research process to further advance battery performance, which will be accelerated with the aim to apply our all-solid-state ...

The Technology Powering Honda's Solid-State ...

Building on initial research milestones, Honda now aims to enhance battery performance further and accelerate testing toward ...

Honda Begins Development of Its Own Solid-State ...

Now, the long-awaited breakthrough may be within reach. Honda plans to utilize its solid-state batteries not only in electric vehicles ...

Honda Research Institute and University ...

"Fluoride-ion batteries offer a promising new battery chemistry with up to ten times more energy density than currently available Lithium ...

Honda and Toyota Reveal Why Solid-State ...

Solid-state batteries promise everything EV buyers want, but Honda and Toyota's latest patents show the hardest work happens long ...

Honda and GS Yuasa Reach Basic Agreement Toward ...

Honda and GS Yuasa have already been working together on lithium-ion batteries for hybrid electric vehicles (HEVs), and this new collaboration will further accelerate Honda's ...

Advancing energy storage: The future trajectory of lithium-ion ...

By bridging the gap between academic research and real-world implementation, this review underscores the critical role of lithium-ion batteries in achieving decarbonization, ...

Honda lithium battery energy storage system design

The applications of lithium-ion batteries (LIBs) have been widespread including electric vehicles (EVs) and hybridelectric vehicles (HEVs) because of their lucrative ...

Energy Storage 2023

To address the energy-environment dilemma, we developed self-standing composite electrodes for Li-ion batteries without electrochemically inactive metal current collectors, additives, and ...

Contact Us

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