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Verification of grading technology with Mitsubishi Motors Corporation

Kyoto, Japan – Nuvoton Technology Corporation Japan (NTCJ) today announced the verification of grading technology with Mitsubishi Motors Corporation.

Toward the reuse of in-vehicle used batteries

In recent years, the spread of electric vehicles (EVs) has been accelerating against the backdrop of global environmental protection. Under such circumstances, it is being considered for secondary use (reuse) of used in-vehicle batteries without discarding them. However, reuse of in-vehicle used batteries requires grading (sorting), and conventional methods take a very long time, so high-speed grading technology is important for building a reuse ecosystem.

NTCJ in collaboration with Mitsubishi Motors Corporation, is verifying the grading technology for in-vehicle used batteries using the AC impedance method.

This verification is a two-year plan, and in FY2021, we were able to derive an algorithm for estimating the deterioration state from the correlation between the impedance inside the battery and the deterioration state of the battery. In FY2022, we will continue to verify the applicability and accuracy of the AC impedance method using batteries actually used in the market.

In the future, we will work to build a reuse ecosystem for in-vehicle used batteries through this verification.

Verification of grading technology for high-speed battery reuse by AC impedance method:

https://www.mitsubishi-motors.com/jp/sustainability/environment/recyclelow/pdf/AC_Method_summary.pdf

We will continue to contribute to the realization of a sustainable earth and society through battery management technology.

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About Nuvoton Technology Corporation Japan (NTCJ)

Nuvoton Technology Corporation Japan (NTCJ) joined Nuvoton Group in 2020. As a dedicated global semiconductor manufacturer, NTCJ provides technology and various products cultivated over 60 years since its establishment, and solutions that optimally combine them. We value relationships with our customers and partners, and by providing added value that exceeds expectations, we are working as a global solution company that solves various issues in society, industry, and people's lives. For more information, please visit <https://www.nuvoton.co.jp/en/>.