



**Start of Joint Research with Osaka Metropolitan University for Technological
Development of All-Solid-State Batteries
— Accelerating development of advanced solid-state batteries for NEDO Green
Innovation Fund —**

GS Yuasa Corporation (Tokyo Stock Exchange: 6674; “GS Yuasa”) today announced that it started undertaking joint research with Osaka Metropolitan University (President: Masahiro Tatsumisago; Location: Sakai, Osaka) regarding the research and development of all-solid-state batteries, a technology proposal that was selected for the NEDO Green Innovation Fund.

GS Yuasa is utilizing its developed proprietary high-performance solid electrolytes to develop an all-solid-state battery that surpasses the performance of conventional storage batteries. In recognition of its achievements, GS Yuasa was selected to participate in the NEDO Green Innovation Fund’s Next-Generation Storage Battery and Motor Development project* under the theme of developing an advanced solid-state battery in April 2022. This project will be further accelerated through joint research on the analysis of proprietary solid electrolytes developed by GS Yuasa with the Inorganic Chemistry Group (Professor Akitoshi Hayashi) in the Department of Applied Chemistry at Osaka Metropolitan University’s Graduate School of Engineering, which has hitherto reported notable research findings on multiple occasions concerning the degradation analysis of solid electrolytes.

GS Yuasa will aim to achieve the targets of this project as soon as possible while continuing to contribute to the goal of achieving carbon neutrality through the development of next-generation battery technologies for use in electric vehicles and a variety of other applications.

Development targets for advanced solid-state batteries:

1. Development of a solid electrolyte that combines high ionic conductivity with superior water resistance
2. Development of high-capacity positive electrodes with low cobalt content
3. Development of negative electrodes with high capacity and long-life performance
4. Development of cell design and manufacturing processes that facilitate mass production

*This project (code: JPNP21026) is being undertaken with funding from the New Energy and Industrial Technology Development Organization (NEDO).

Reference:

News Release issued on April 19, 2022

GS Yuasa Selected for Participation in NEDO Green Innovation Fund’s Next-Generation Storage Battery Development Project - Accelerating development of all-solid-state battery utilizing proprietary high-performance solid electrolytes –

https://www.gs-yuasa.com/en/newsrelease/article.php?ucode=gs220409353428_1161