2026/09

To Members of the Press

Jikantechno Inc.

Development of high-quality silica for semiconductor materials derived from agricultural residues (rice husks) has begun.

～The aim is to begin manufacturing in 2028 in cooperation with AIST～

Jikantechno Inc. (Head Office: Osaka, Japan; Representative Director: Takahiro Kinoshita) has begun the development of high-quality silica for semiconductor applications, using rice husks—an agricultural residue—as the raw material, with the cooperation of the National Institute of Advanced Industrial Science and Technology (AIST).

■ Background and Achievements to Date

Jikantechno has been developing industrial-quality materials utilizing biomass feedstocks, including silica produced from rice husks and biomass carbon produced from sake lees and other biomass resources. In particular, Jikantechno rice husk-derived silica has achieved world-class quality, demonstrating the potential of biomass-derived materials for advanced industrial applications.

■ Purpose of the Development and Future Outlook

Building on existing technological foundation, Jikantechno has now begun developing the quality and manufacturing processes required for silica intended for semiconductor applications, where extremely high levels of purity are required, with the cooperation of AIST. Jikantechno plan to begin mass production of our rice husk-derived silica in 2027. As a further goal, we aim to establish and begin operations at a manufacturing facility for high-quality silica for semiconductor applications in 2028. By commercializing semiconductor materials derived from biomass with a lower environmental impact, Jikantechno aims to contribute to the development of a sustainable, domestically sourced supply chain and the advancement of the technology industry.

■ Company Overview

・Company Name：Jikantechno Inc.

・Head Office: 6-12-16 Fukushima, Fukushima-ku, Osaka, Japan

・Representative: Takahiro Kinoshita, President and Representative Director

・Established: 2016

・Business Activities: Development and manufacturing of industrial-grade materials derived from biomass feedstocks (silica, biomass carbon, SiC, etc.)

・URL：https://jikantechno.com

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