

October 29, 2025
Kagoshima Prefecture
Taiheiyo Cement Corporation

Adoption of Volcanic Sediment “SHIRASU” from Kagoshima Prefecture for Private Construction in Yakushima Town

Kagoshima Prefecture (Governor: Koichi Shiota) is promoting the effective utilization of the volcanic sediment “SHIRASU” as part of its “Infrastructure and Construction GX Project”. Taiheiyo Cement Corporation (Headquarters: Bunkyo-ku, Tokyo; President and Representative Director: Yoshifumi Taura, hereinafter “Taiheiyo Cement”) has decided to adopt low-carbon concrete products utilizing SHIRASU sourced from Kagoshima Prefecture for a private construction project in Yakushima Town. The completion of this project is aimed for within the year.

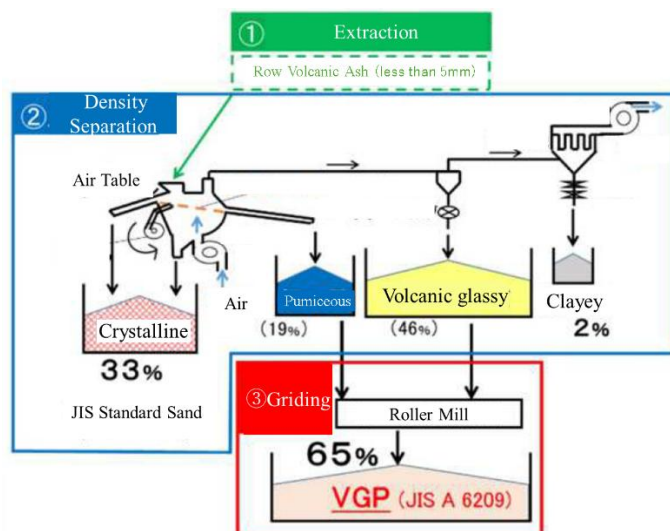
SHIRASU is a volcanic sediment widely distributed in the southern Kyushu region, particularly in Kagoshima Prefecture. Aiming to promote the resource utilization of SHIRASU and its social implementation, Kagoshima Prefecture is promoting low-carbon concrete using volcanic glass powder derived from SHIRASU (hereinafter, “VGP”) developed by the Kagoshima Prefectural Institute of Industrial Technology and others. By using VGP as a material, it is possible to reduce CO₂ emissions compared to conventional concrete.

As the first initiative to support the Zero Carbon Island initiative in Yakushima Town, Taiheiyo Cement is advancing the development of EV quick charger, parking lots, and rest areas on the premises of a supermarket operated by a subsidiary of Yakushima Denko Co., Ltd., a group company*,

In this construction, approximately 8m³ of concrete products utilizing approximately 1t of VGP will be constructed. The expected reduction rate of CO₂ emissions from the concrete products resulting from this construction is estimated to be 49% for tire stop blocks and 16-27% for the roof, floor, and columns of the rest area.

Taking this initiative as an opportunity, Kagoshima Prefecture and Taiheiyo Cement will accelerate the spread of concrete products using SHIRASU and contribute to the realization of carbon neutrality.

【Manufacturing process of VGP】



Provided by Kagoshima Prefectural Institute of Industrial Technology

【SHIRASU Deposit Site】



*Related release:

Decision to Install Facilities such as EV Quick Chargers in Yakushima Town – Collaboration with Yakushima Town's Zero Carbon Island Initiative – (October 29, 2025)

https://www.taiheiyo-cement.co.jp/english/summary/pdf/251029_1.pdf

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