

NEWS RELEASE

March 30, 2023

REFINVERSE Group, Inc.

Representative: Akira Ochi, President and CEO

(Securities Code: 7375)

Development of the New ReFEZER Biomaterial Made from Bird Feathers

REFINVERSE Group, Inc. (Head Office: Chiyoda-ku, Tokyo / President and CEO: Akira Ochi) has developed a new biomaterial we are calling ReFEZER. We make ReFEZER from bird feathers which were previously difficult to utilize. We specially process the keratin protein which is the main component of those feathers to achieve this.

Features of ReFEZER

- Utilizing Feathers to Produce a High-value-added Material

Bird feathers are generated in large quantities around the world as a by-product of livestock farming. Only a very small fraction of those feathers is used as the raw material of bedding, clothing, fertilizer and feed. Most of them are not utilized for anything. REFINVERSE has now



Bird Feathers

focused our attention on the keratin protein which is the main component of those feathers to transform them into a high-value-added biomaterial with our independently developed technologies.

■ For a Cleaner Planet with Biodegradability
Environmentally-friendly biodegradability is one of the main features of ReFEZER. The conditions under which regular biodegradable plastics degrade were previously limited. However, ReFEZER demonstrates biodegradability even in soil and the ocean. ReFEZER will help to solve the microplastic problem with this feature.



ReFEZER
Biodegradable Biomaterial

■ Keratin-derived Material to Enrich the Soil

Generally, biodegradable plastics only degrade in water and CO₂. ReFEZER is made from the keratin protein which contains a lot of nitrogen. Therefore, it degrades and forms the nutrients required by plants to enrich the soil.

■ Combining Original Technologies to Produce a Biomaterial Which Anyone Can Use

Various bio-derived materials have been developed. However, there was an issue that the costs were significantly higher for all of them compared to petroleum-derived plastics. ReFEZER combines our original fine pulverization technologies and biotechnologies accumulated by our group. This has made it a new biomaterial with sufficient cost-competitiveness compared to petroleum-derived products.



Molded Body Made with
ReFEZER



ReFEZER and Fiber
Composite Product

We believe the impact of this matter on our consolidated business results for the fiscal year ending June 30, 2023 will be minor.

We will continue to proactively develop original recycling technologies and businesses as a materials manufacturer which views waste as a resource and transforms it into new materials.

Inquiries

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