Introduction of revia -Plastic Recycled Materials-

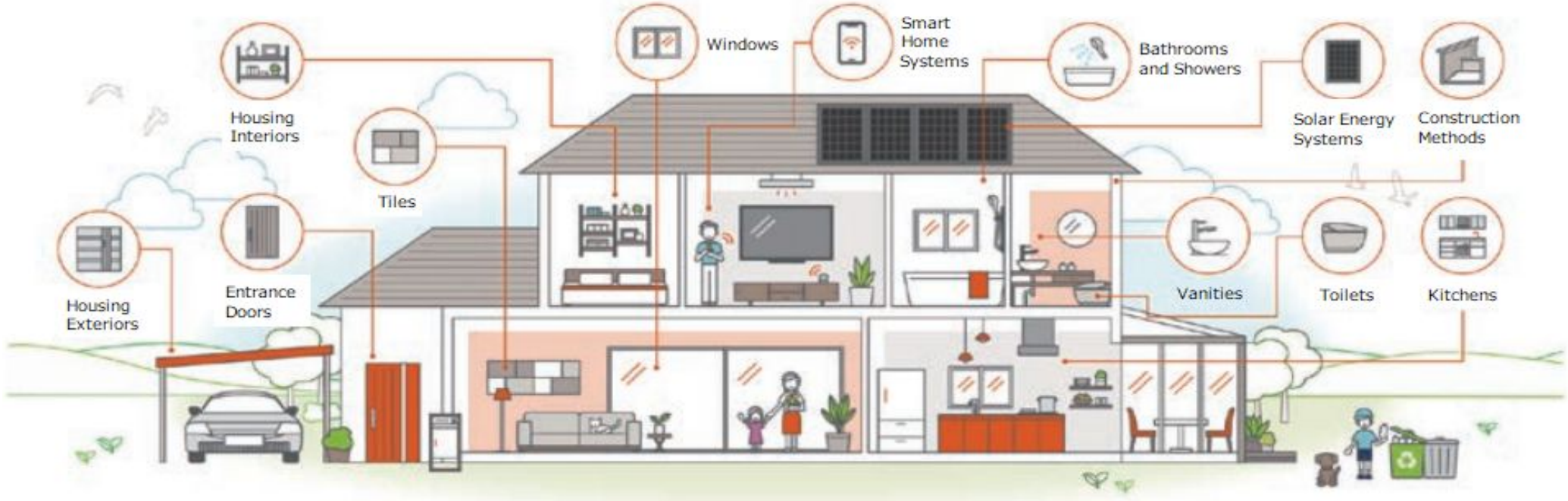
LIXIL Corporation

June,2026

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About LIXIL

Make better homes a reality for everyone, everywhere. LIXIL provides a wide range of high-quality products that resolve issues in everyday life globally by employing world-leading technologies and innovation.



Approximately 53,000 employees

Supporting lives of more than 1 billion people

Operating in over 150 countries worldwide

Over 100 years of brand history

LIXILは、日本のものづくりの伝統を礎に、世界をリードする技術やイノベーションで、日々の暮らしの課題を解決する高品質な製品をグローバルに提供しています。

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Environmental Vision 2050

LIXIL's Environmental Vision aims to realize **"Zero Carbon and Circular Living"** by addressing three key environmental challenges.

ZERO CARBON AND
CIRCULAR LIVING

By 2050, LIXIL aims to become a leading company that achieves net-zero CO2 emissions through its business processes, products, and services, passing on the blessings of water and our finite resources to future generations.

Three Focus Areas for Realization

Climate Change
Achieve net-zero greenhouse gas emissions through our business processes, products, and services.

Pursuit of Water Sustainability
Create environmental value for water through water conservation, circular water use, and water purification technologies.

Promoting Resource Circulation
Contribute to the transition toward a circular society and pass on our finite resources to future generations.

LIXILの環境ビジョン、3つの環境課題「気候変動」「水の持続可能性の追求」「資源の循環利用促進」に取り組むことにより「CO2ゼロと循環型の暮らし」の実現を目指します

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New Value to Plastics

Sustainable Material

revia

We successfully recycle almost all types of waste plastics and waste wood
that were previously considered difficult to recycle

Sustainable Material: Revia

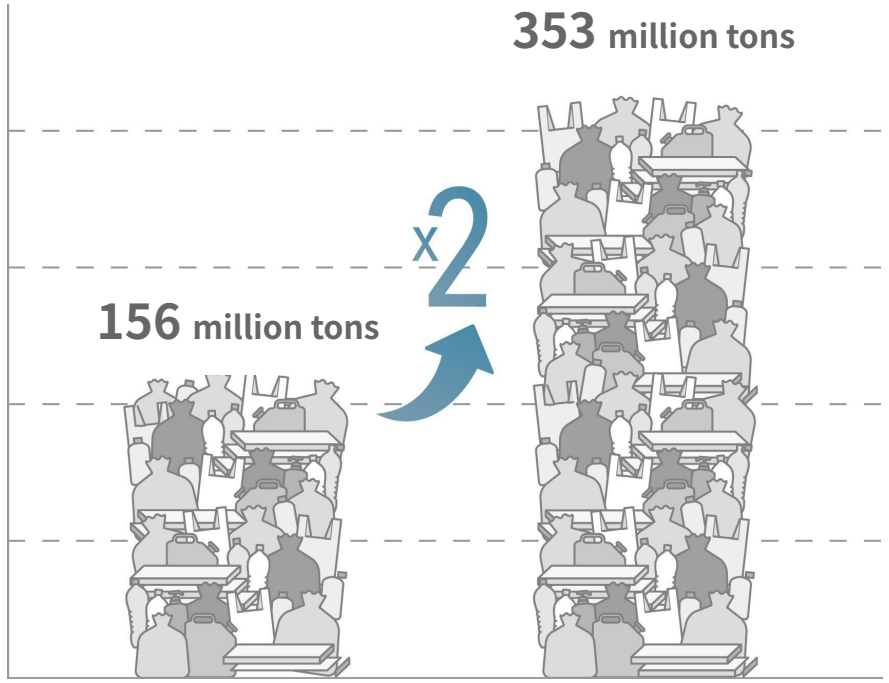
循環型素材「レビア」は、再資源化が困難であったほぼすべての廃プラスチックと廃木材を再資源化し、新たな価値を創出します

※ The name "Revia" is a coined word combining the English word "Recycle" and the Spanish word "Vida," which means "life."

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Addressing the ever-increasing plastic waste is an urgent issue.

Annual plastic waste has more than doubled over the past 20 years



Source
OECD (2022) Global Plastics Outlook

Japan ranks 2nd in the world for plastic packaging waste per capita.



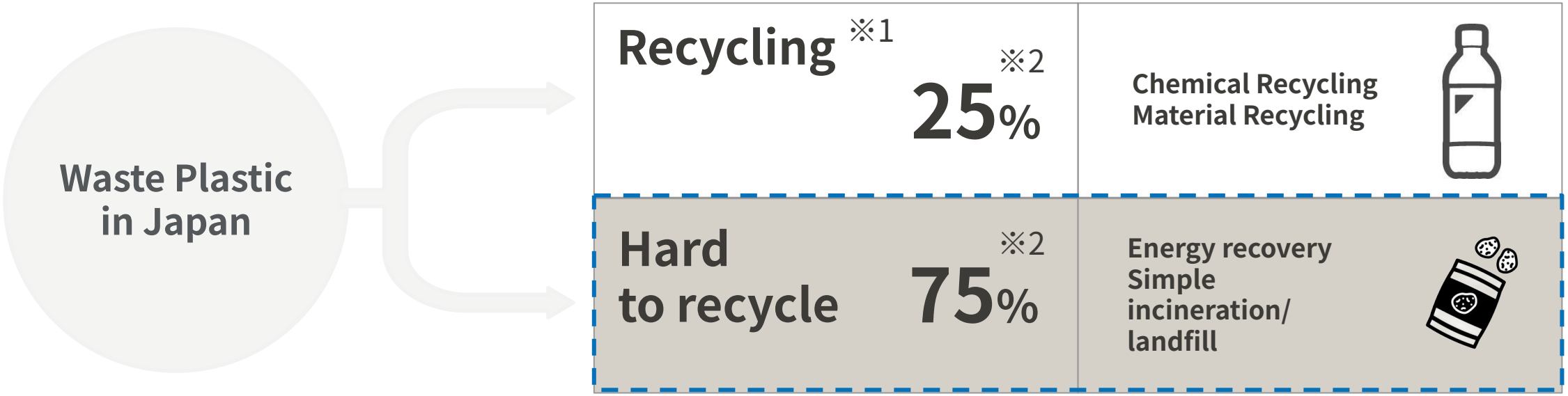
Source
UNEP(2018)SINGLE-USE PLASTIC

国内外において、増え続ける廃プラスチックへの対策が喫緊の課題です
プラスチックの年間廃棄量は19年で2倍以上になり、日本人一人あたりのプラスチック容器包装廃棄量は世界 2位となっています

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Present situation of plastic waste recycling in Japan

There is need for effective use of waste plastics that are hard to recycle.



再資源化困難な廃プラスチックの有効活用が求められています
国内の廃プラスチックの75%がエネルギー回収として単純焼却・埋め立てられています

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*1 The term "recycling“ as used in Chapter 1, Article 2, Paragraph 5 of the Plastic Resource Circulation Act refers to making the whole or part of a plastic product used or a by-product of plastic (referred to as a "product using used plastic, etc." in the next paragraph and Article 4, Paragraph 3) available for use as a component, raw material, or as part of another product.
*2 Source: Plastic Waste Management Institute: 2020 Status of Production, Disposal, Recycling and Processing of Plastic Products (Japanese only)

Revia Manufacturing Flow

Using plastics packaging waste collected by municipalities as revia materials.



Plastic packaging waste

25%



PP・PE Material

75%



hard to recycle
mixed residue
(PP, PE, PVC, etc.)



Waste
Wood



Convert to
Material

First innovative technology of the world



Convert to
Material



Recycled products



Using 400kg of
hard-to-recycle
waste plastic
per ton

revia

レビアの原料は市町村で回収される容器包装プラスチックを利用しています
リサイクルが困難とされていた複合プラスチックと廃木材を混ぜ合わせ、世界ではじめて原料化しました

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Challenges Faced in Establishing the New Technology

Plastic waste
Hard-to-Recycle



Challenge

Types of mixed residue have different melting points

Approach 1: **Application of Conventional Technology**

Extrusion molding



Difficult to remanufacture into new products

再資源化困難な廃プラスチックは樹脂種類ごとに融点が異なり、それを再製品化することは困難と言われてきました

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Establishment of New Technology & The Birth of Revia

Plastic waste
Hard-to-Recycle

Approach 2
Patented technology

Fine grinding





Approach 1: **Application of Conventional Technology**

Extrusion molding



Successfully achieved remanufacturing



再資源化困難な廃プラスチックを微粉砕し、従来の押出技術を応用することで再製品化を実現しました

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Contributing to CO_2 emission reduction and plastic resource circulation through recycling.

Contribution to CO_2 Reduction

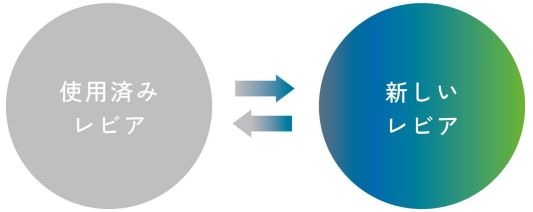
Producing 1 ton of revia eliminates approximately 1.1 tons of CO_2 emissions that would have otherwise occurred.

CO_2 emissions from the incineration of hard-to-recycle plastic waste.	Reducing CO_2 emissions during incineration by manufacturing revia using hard-to-recycle plastic waste.
Approx.1.1t	0t

※CO_2 emissions from the combustion of waste plastics are calculated based on the LCI database "IDEA.
※Calculated based on revia Panel floorboards.

Contribution to Resource Circulation





Reducing environmental impact by recycling hard-to-recycle plastic waste.

Long-term resource circulation through horizontal recycling.

※Materials have a limited number of recycling cycles.

再資源化により、CO_2排出の削減に貢献し、長期にわたる水平リサイクルとして資源循環にも貢献します

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revia is manufactured at the Hisai Plant in Tsu City, Mie Prefecture.

Hisai LIXIL Manufacturing Co., Ltd.

Location

Heki-cho, Tsu City, Mie

Established

July,1979

Site area

234,227㎡（Equivalent to about 5 Nagoya Domes）

Numbers of employees

Approximately 1,000 employees

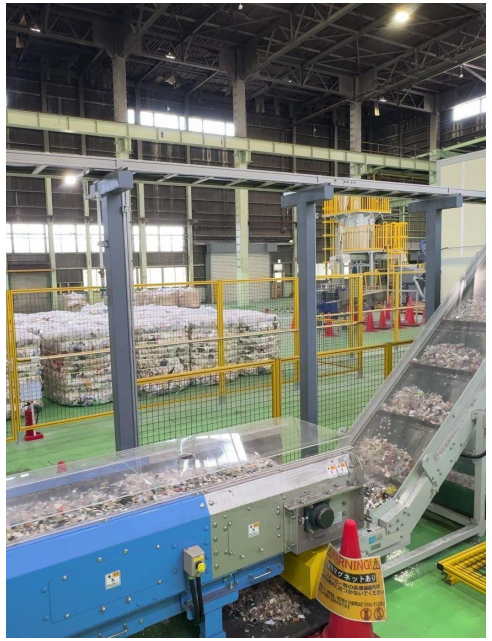
Product Lines

Aluminum windows
PVC windows
Bathroom doors
revia



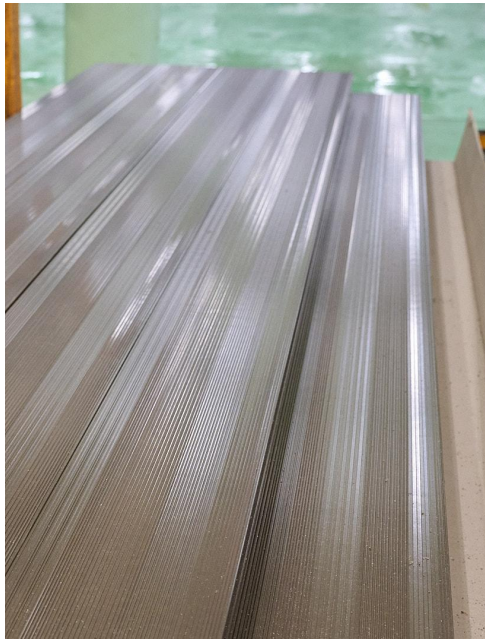
Advantage of Hisai Plant

Advanced extrusion technology & strategic location.



Responsible Raw Material Procurement

Using municipal plastic packaging waste & strict in-house sorting.



Integrated Production System

End-to-end process at our own plant & Ensures stable, high-quality products.

レビアは三重県津市の久居工場で生産し、一貫した生産体制により高品質な製品づくりを実現しています

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Revia Initiatives

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Chosen for the pavilion themed around "Weaving Lives"

Revia Adopted at Expo 2025 Osaka, Kansai

Officially selected for the "EARTH MART" Signature Pavilion.

Recognized as an ideal circular material for horizontal recycling, perfectly matching the pavilion's theme.

Post-expo materials already repurchased for reuse at affiliated facilities.



2025年大阪・関西万博のシグネチャーパビリオン「EARTH MART」にレビアが採用されました。
レビアは水平リサイクルが可能な循環型素材であり、パビリオンのテーマに即した素材として評価されました。
閉幕後に一部を弊社が買取り、関連施設などで再利用します。

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Case Study | Agreement with Tsu City for Resource Circulation

Tsu City and LIXIL conclude a partnership agreement to promote plastic resource circulation[1] on March 2025

- Established the industry's first local recycling loop by transforming Tsu City's household plastic waste into "revia" products.
- Promotes the formation of a sustainable, circular society in Tsu City and contributes to the realization of carbon neutrality.



**2025年3月、プラスチック資源循環の推進に関するパートナーシップ協定を締結し、
津市の家庭ごみからプラスチック廃棄物を「レビア」製品へと転換することで、業界初となる地域密着型のリサイクルシステムを構築しました。**

(1) News release https://newsroom.lixil.com/ja/2025032803
(2) As of the end of February 2025, according to LIXIL research.

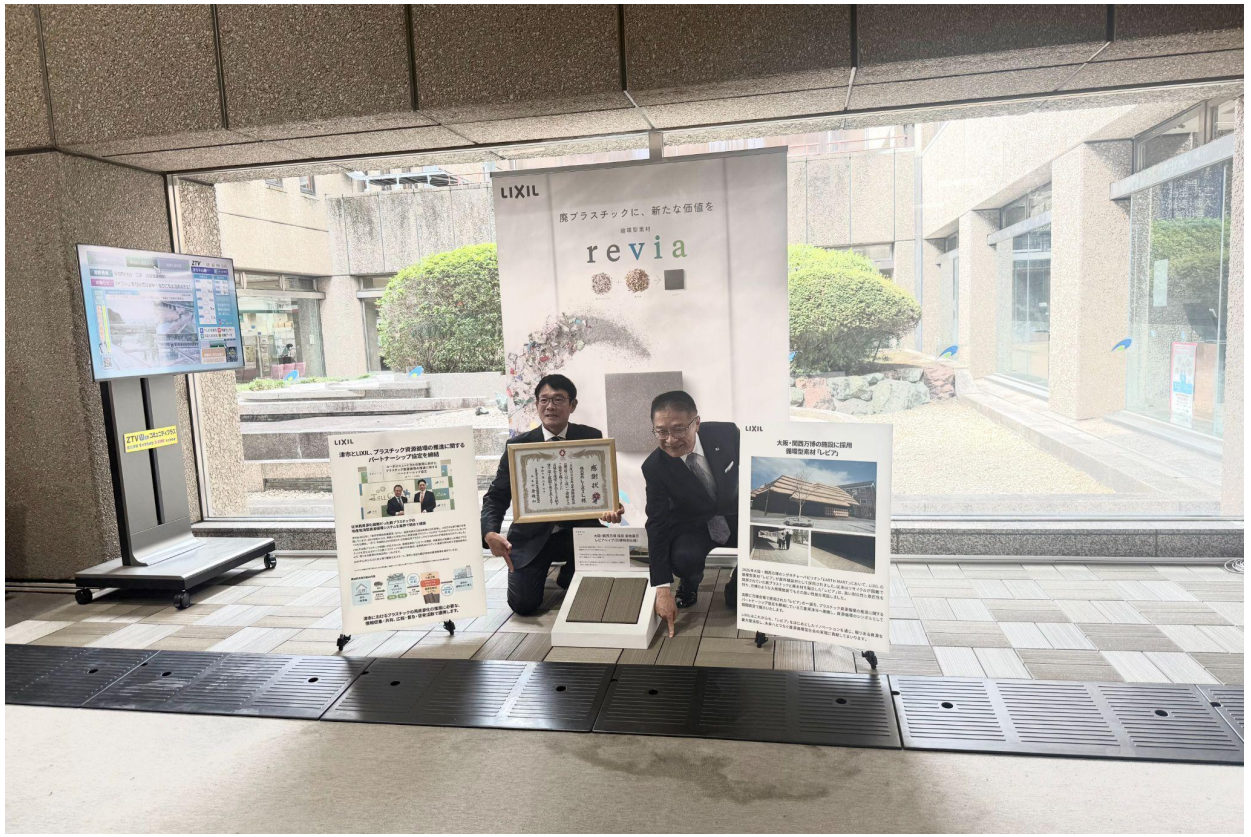
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Case Study | Donation of "Expo Revia" used at Expo 2025 Osaka, Kansai to Tsu City

In March 2026, "Expo Revia" was installed in front of the reception desk at Tsu City Hall.

We provided Tsu City with approximately 100 panels of the circular material "Revia" that were used in the pavilions at Expo 2025 Osaka, Kansai.

This utilizes the legacy of the Expo to promote carbon neutrality in the local community.



大阪・関西万博のパビリオンで使用された循環型素材「revia」約100枚を津市へ提供しました。
これは、万博のレガシーを活用して、地域社会におけるカーボンニュートラルの推進に貢献するものです。

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Highly evaluated by the national government: The potential for resource circulation pioneered by revia

Received the Gold Award at the "Plastic Smart Award 2026" hosted by the Ministry of the Environment

The circular material revia received the Gold Award in the "Manufacturing Category" at the "Plastic Smart Award" hosted by the Ministry of the Environment.

As a result of rigorous screening, revia was highly commended for its outstanding progressiveness and its potential to pioneer a future resource-circulating society.



循環型素材レビアが、環境省主催「プラスマ・アワード」の作る部門において金賞を受賞しました。

厳正な審査の結果、レビアが持つ卓越した先進性と、未来の資源循環社会を切り拓く可能性が高く評価されました。

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Products Tailored to Your Applications and Needs

Introducing our lineup of products made with the Revia material.

We can provide a variety of proposals customized to fit your specific applications and usage.



revia Panel

300mm Square Joint-Type Deck Panels
Easy to install and simple to maintain.



Wood Deck Kirara Mokucho

Utilizing Revia as the base material. Featuring an uneven, textured design that resembles hand-carved wood.

レビアを使用したレビア商品のご紹介です。
reviaパネルやウッドデッキなど、お客様の用途や使い方に合わせて、様々なご提案が可能です。

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Revia operates with a vision of realizing a sustainable society.

revia “New value to Plastic ”

Collaborating with external organizations to establish an environmental ecosystem



Expanding the application of revia to a wide variety of products.



Transitioning toward a fully sustainable business model.



レビアは持続可能な社会を目指すことをビジョンとして、エコシステムを実現する外部機関との連携、さまざまな製品への応用、
持続可能なビジネスモデルを構築していきます

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