

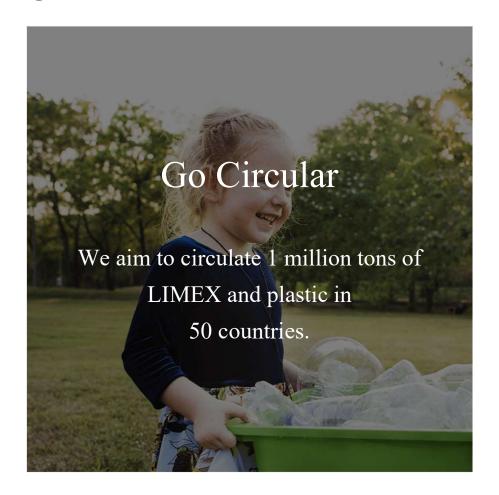
TBM Co., Ltd.
Daiki Sato (Regional Director)

TBM

TBM Pledge 2030

Ambitious mid-term goal "TBM Pledge 2030"





TBM Times Bridge Management

We aim to be a top player in the sustainability field as a company that will continue to take on challenges for hundreds of years and serve as a bridge between the past, present and future.

Business Overview

Company Overview

Company Name TBM Co., Ltd.

Established August 2011

Address 15F Toho Hibiya Building, 1-2-2,

Yurakucho, Chiyoda-ku, Tokyo, JAPAN

CEO Nobuyoshi Yamasaki

of employees 340 (as of June 2023)

Capital Stock Approx. \$200 million

(Including legal capital surplus)

Business Develop, manufacture, and deliver ecological

materials, and material circulation business

Major Shareholders

- Aderans Company Limited
- ITOCHU Corporation
- Goldman Sachs
- SK Japan Investment Inc.
- SBI Holdings, Inc.
- · Sanyo Chemical Industries, Ltd.
- JR East Start Up Co., Ltd.
- SHIMA SEIKI MFG., LTD.
- Shinsei Corporate Investment
 Limited
- Spotlight 1
- SETTSU WAREHOUSE Co., Ltd.

- Dai Nippon Printing Co., Ltd.
- DCM Holdings Co., Ltd.
- DIP Corporation
- Dentsu Group Inc.
- Toppan Inc.
- · Nihon Kolmar Co., Ltd.
- FRANCE BED HOLDINGS CO.,LTD.
- MITSUBISHI PENCIL CO., LTD.
- Musashi Paint Holdings Co., Ltd.
- YAKUODO Co. Ltd.
- Yodobashi Holdings Co.,Ltd.

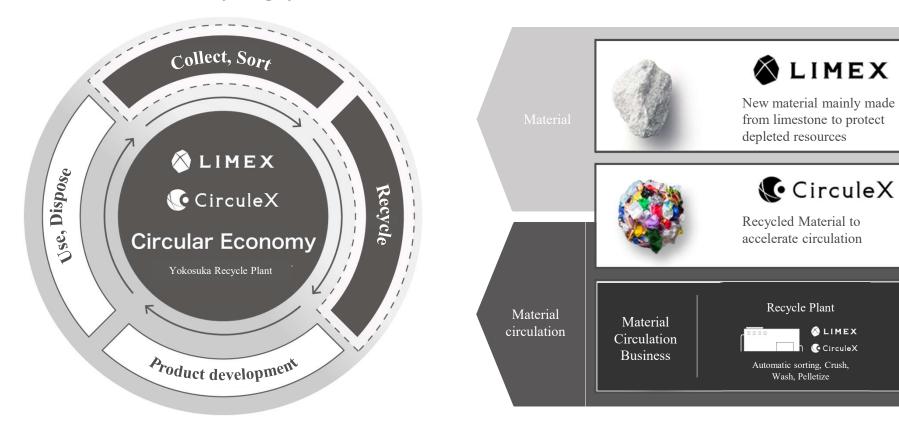
Awards

- Plug and Play 2016 "New materials and package" (US)
- Stevie Awards Asia Pacific 2017 (ASIA REGION)
- COOL JAPAN AWARD 2017 (JAPAN)
- US Japan Innovation Award 2017 " Innovation Showcase company " (US)
- Red Dot Design Award 2018 (GERMANY)
- EY Entrepreneur Of The Year 2019 Japan (JAPAN)
- Good Design Award 2020 "Bio LIMEX Bag" (JAPAN)
- 100 Best Industrial Innovations for International Technology Transfer (CHINA)
- Golden Pin Design Award 金點設計獎 2021 (TAIWAN)

ABOUT US

TBM Business Model

We realize a circular economy through the development of products and services based on environmentally friendly materials and resource-recycling system creations.



LIMEX

Recycle Plant

Wash, Pelletize

M LIMEX

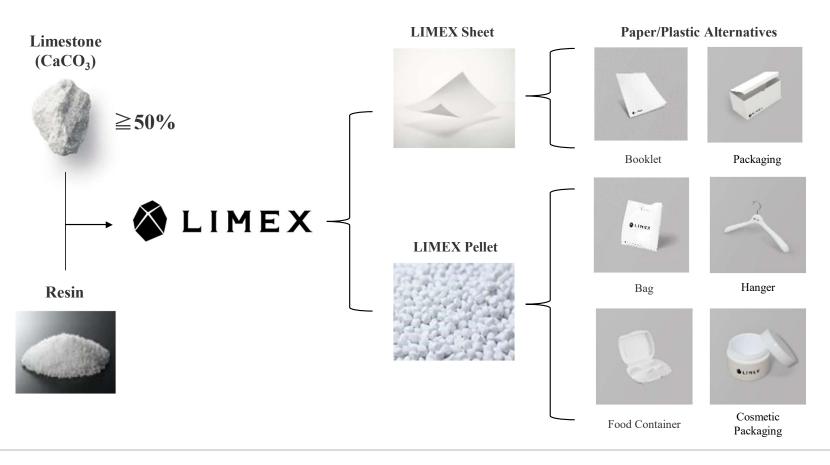
CirculeX



LIMEX Introduction

Our core product: LIMEX

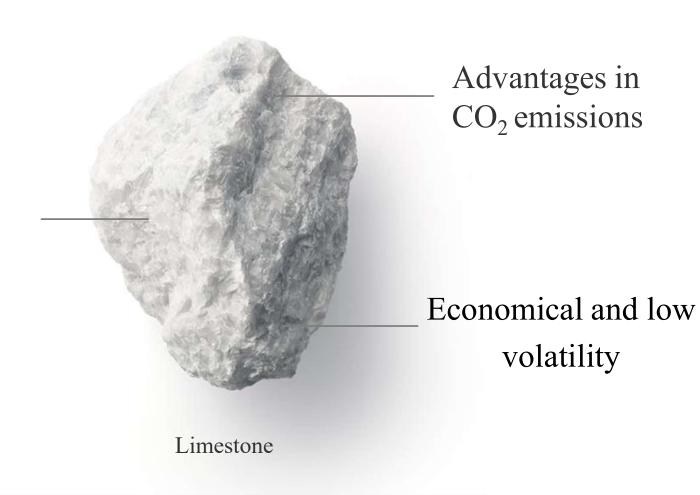
LIMEX is an inorganic filler composite material. It can be used as **plastic and paper alternatives**.



LIMEX

Why limestone?

Abundant natural resource worldwide



LIMEX Introduction

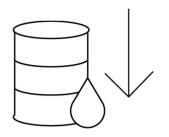
Ecological Advantages



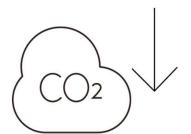
Alternative to plastic



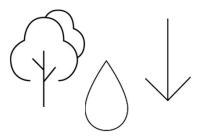
Alternative to paper



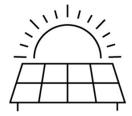
Reduce Plastic



Reduce Greenhouse Gas



Save **Tree & Water Resources**



Manufactured using 100% renewable energy



Massive range of lineups drives true sustainability



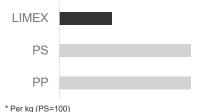


Reduce plastic consumption - plastic alternative -





Plastic consumption





Raw material sourcing ~ incineration (production of final product is excluded)



- *Functional Unit/System Boundary
- Evaluation of raw material procurement (including pelletizing), material transportation, product
- Assumed that disposal process is incineration as general waste
- Product manufacturing is omitted since it depends on molding processes

plastic production to increase by 2050 vs 2018 From: Plastics Europe Market Research Group (PEMRG) and Conversio Market & Strategy GmbH, Plastics - the Facts 2019, World Economic Forum, Ellen Macarthur Foundation, McKinsey & Company, A New Plastics Economy: Rethinking the Future of Plastics 11

^{*1} Simplified LCA conducted by TBM Co., Ltd. (2020) | Calculation Method Life Cycle Inventory | Inventory Database: LCI Database IDEA version 2.3 (2019/12/27), National Institute of Advanced Industrial Science and Technology, Safety and Scientific Research Department and Society and Research Laboratory for IDEA, SuMPO (Sustainable Management Promotion Organization) | Impact Assessment Method: Climate change IPCC 2013 GWP 100a

Cases

Overseas expansion of LIMEX



LVMH's cosmetic brand KENDO CC stick packaging

Over 50% inorganic material



Big C Shopping Basket

Below 50% inorganic material

Cases

Overseas expansion of LIMEX







Events and exhibitionsPrinting Material

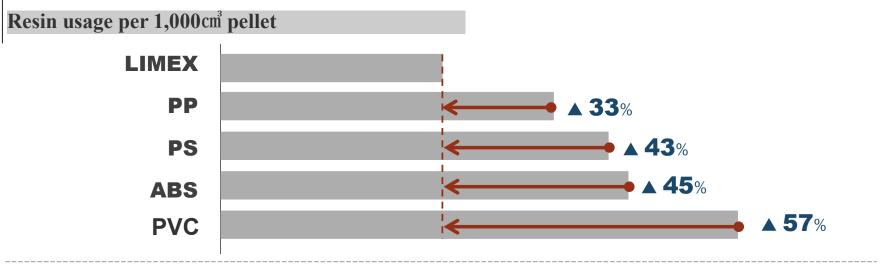
Over 50% inorganic material

Shopping Bags

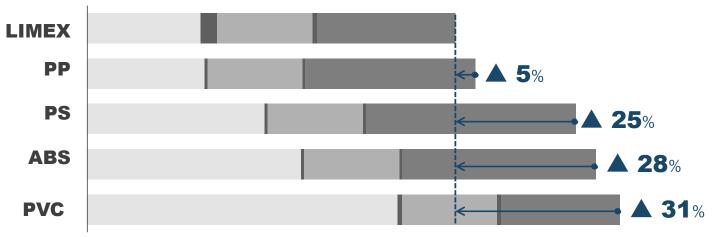
Over 50% inorganic material

Environmental comparison



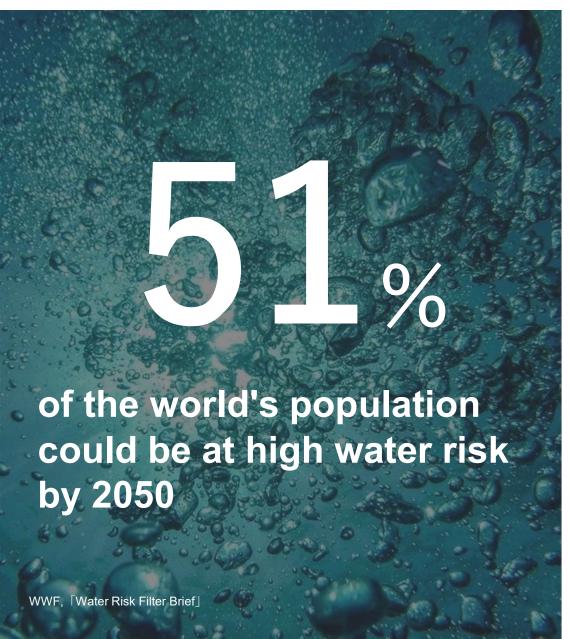






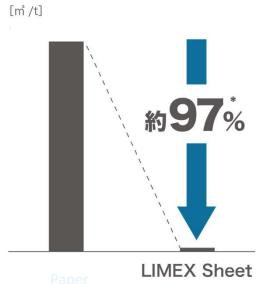
■ Material procurement ■ Material transportation ■ Molding ■ Product transportation ■ Incineration

- * LIMEX virgin grade pellet made in Vietnam Ash; 60%
- * Calculation scheme
- Source: Simple LCA by TBM Co., Ltd. (2020)
- Calculation method: Life cycle inventory
- Inventory database: LCI database IDEA version 2.2 (2018/01/18) · 2.3 (2019/12/27) Society and LCA Research Group, Safety Science Research Div.
- Impact evaluation method: LIME2 (Life cycle Impact assessment Method based on Endpoint modeling)





Reduce water consumption - paper alternative -



- ✓ NO Trees used
- ✓ Reduces water consumption





*LIMEX Sheet is a calculated value for the amount of water used per ton of sheet produced in a factory, compared to paper and paperboard, and is provided for reference only, without guarantee. The actual values may vary depending on the formulation, manufacturing conditions, and data collection status for each product. This information is based on the transition of the freshwater usage per ton of paper and paperboard production unit provided by the Japan Paper Association, as well as the water usage per production equipment during the trial production at the Tagajo Plant in 2021 divided by the production volume during that period.

LIMEX is delivered to over 10,000 companies

As an alternative to paper



SoftBank (Store POP)



Nolty
(Notebook cover)



CDP (report)



Shobunsha (Map)



Yoshinoya (Menu book)



Watahan (Stick in tag)



Ishokudogen (Packaging)



Backlit Signage (MOS Burger)

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Backlit Film

Over 50% inorganic material

Backlit Film made with LIMEX is used in various industries

POLA



















Why LIMEX?

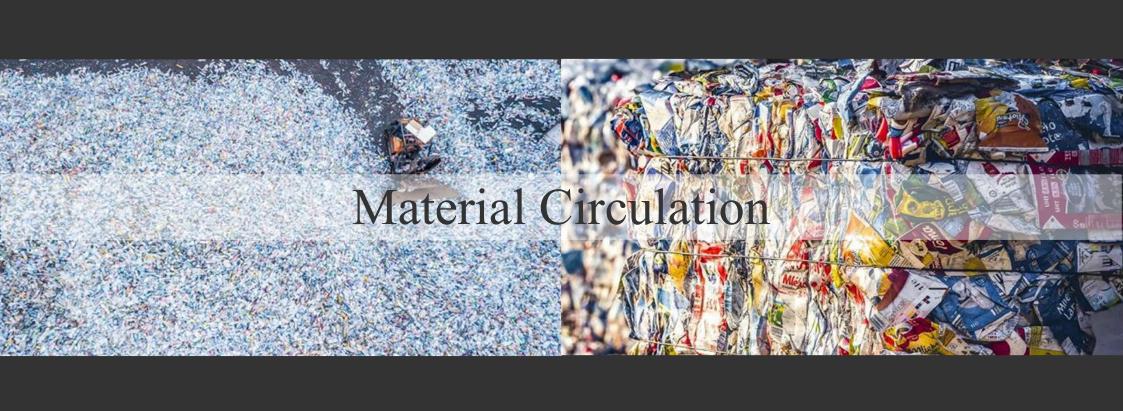
- Light diffusion and opacity compared to PET, PVC, PP etc.
- Beautiful color expression
- Cost reduction

ENVIRONMENTAL IMPACT

Reduce Plastic

LAUNCHED MARKET

Japan, Korea





Material Circulation

Promoting resource recycling through 3 approaches

Trading
Purchase of waste plastics



Maximize the value of resources by matching establishments that do not need waste plastic with those that need recycled materials

Manufacturing Manufacture and sale of recycled materials and products



Expanding the use of recycled materials through development, manufacturing, and sales of recycled materials and recycled products

Consulting Establishment of Resource Recycling Platform



Fostering environmental awareness through establishing a resource recycling scheme for post-consumer materials

Material Circulation

Recycle Plant for LIMEX & Plastics

TBM launched a LIMEX & plastic recycling plant in Yokosuka City, Japan, to meet the growing demand of recycling.



Annual processing capacity: approx. **40,000** tons

Production capacity:

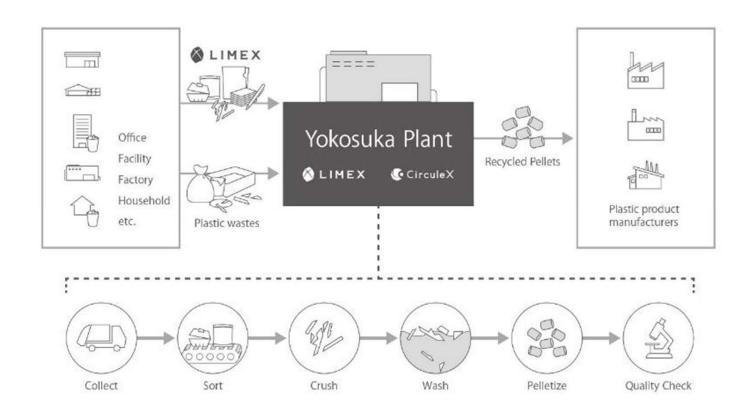
approx. 24,000 tons of recycled pellets

- 1. The world's first plant to automatically sort and recycle LIMEX and plastic wastes
- 2. One of the largest plastic recycling plants in Japan
- 3. Advanced ability to recycle plastic waste discarded from offices and factories
- 4. Pioneering the recycling of household plastic



TBM's first LIMEX and plastic recycling plant

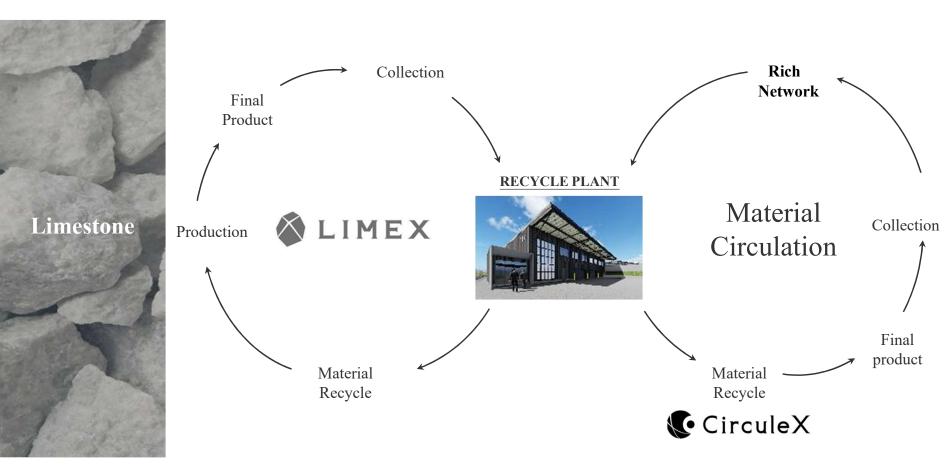
One of the largest mechanical recycling plants in Japan, Yokosuka city started operation in November 2022.



Material Circulation

Material & Circular

TBM will develop the circulation model of ecological materials using abundant limestone and plastic waste.





Products made with recycled material "CirculeX"

Umbrella

Umbrellas made from CirculeX are delivered nationwide with cross-industry collaboration.



Waste Bag

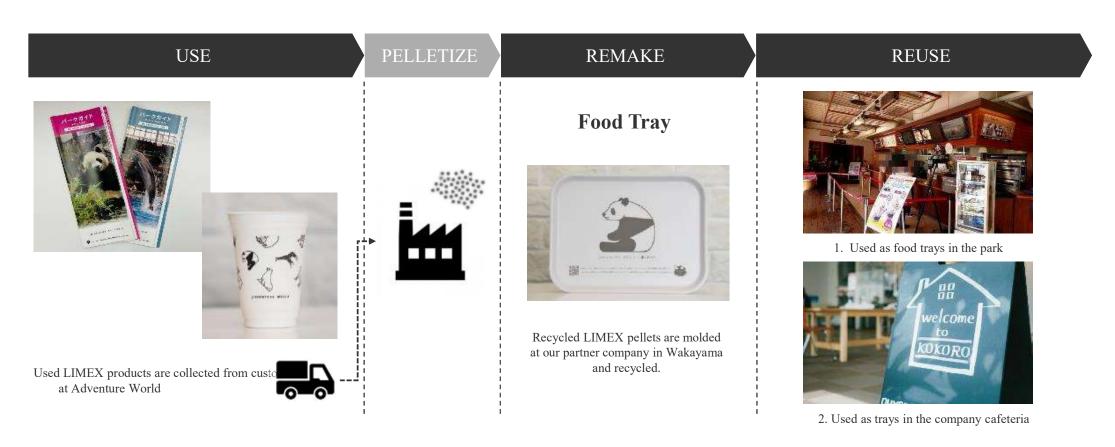
LAWSON switched waste bags from virgin plastic to CirculeX waste bags made from plastic waste collected from Southeast Asia.



Material Circulation

Track Record of LIMEX Closed-loop Upcycling

Used LIMEX products (park guides and cups) were collected and recycled into trays for use in the park's bakery and employee cafeteria





Going Global

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Our Global Strategy

Intellectual property strategy

- •LIMEX is patented in over 40 countries worldwide
- •Received "Intellectual Property Achievement Award 2022" from METI

Design for fabless

- LIMEX can be manufactured and processed with existing and major plastic compounding and molding equipment, no need for new investments
- Establishment of local subsidiary in Vietnam to provide technical supports towards OEM partners and providing a flexible supply chain

Collaboration with global partners

• SK Group agreed on a \$123 million capital and business alliance to accelerate the global expansion of LIMEX and the development of biodegradable LIMEX



Going Global

World-class recognition



Registered in "STePP" the sustainable technology dissemination platform by UNIDO



Introduced at COP as a member of the Japanese government delegation



Participated at the G20 Innovation Exhibition



TBM Joins World Economic Forum's **Unicorn Community**



Introduced at G7 as a member of STePP

TBM

Contact Information

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TBM