

Company Presentation

TBM.Co.,Ltd 株式会社TBM

Chief Marketing Officer

Corporate Communication Division, 執行役員CMO

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2021.02

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TBM Co., Ltd.

Research and development, production and sales of environmentally friendly materials and products.

環境配慮型の素材及び製品の開発、製造、販売

Established	August 30, 2011
Address	2-7-17 Ginza, 6 th Floor, Chuo-ku, Tokyo 104-0061
# of employees	193
Capital	137.229 billion yen (Including legal capital surplus)
Domestic Subsidiaries	Bioworks Corporation
Overseas Subsidiaries	Times Bridge Management Global, Inc.



What is LIMEX?

LIMEX is a new material mainly made from limestone, that can become an alternative to paper and plastic.

石灰石を主原料として、プラスチックや紙を代替する素材



LIMEX

01 Limestone Used as Main Material

- Literally unlimited availability globally
- 100% self-sufficiency in Japan and cheaply available mineral

02 Contribution toward Natural Resources Depletions

Possible to manufacture as:

- Paper alternatives that do not require water
- Plastic alternatives that require much less fossil fuel-based materials

03 Contributions toward Environment

- Reduction in CO2 emission and contribution toward climate change
- Contribution toward micro-plastics problems by circulating and re-using LIMEX and reducing waste

What is CirculeX?

The material that has 50% or more of recycle material and promotes resource circulation

再生材料を50%以上含む、資源循環を促進する素材

- The material meets customers' diverse needs by, depending on the application, mixes recycle materials such as biomass-based or fossil fuel-based resins, or LIMEX, the main material of which is limestone
- We plan to develop products using CirculeX in diverse areas including packaging, logistics and material handling and building materials

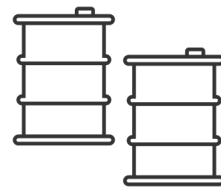


About LIMEX

Contribute to resource conservation by avoiding the use of highly scarce resources with high risk of depletion
Introduced LIMEX and LIMEX products to more than 6,000 companies and local governments in Japan

Plastic alternative

Conventional



Petroleum-derived resin
approx. **100** %



LIMEX

- Reduce the amount of petroleum-derived resin
- Approximately **57%^{*1}** reduction in greenhouse gas emissions such as CO₂

Paper alternative



+



=



trees

water

paper^{*2}

- No need of tree resources
- Approximately **96%^{*2}** reduction in water usage at the factory per ton of sheet

* Approximate for reference. Numerical values may change depending on prescription, manufacturing conditions, and data acquisition status for each product.

*1 Simple LCA by TBM Co., Ltd. (2020) | Raw material procurement-disposal | Per weight

*2 Changes in new water utilization intensity per ton of paper and paperboard production: Japan Paper Association

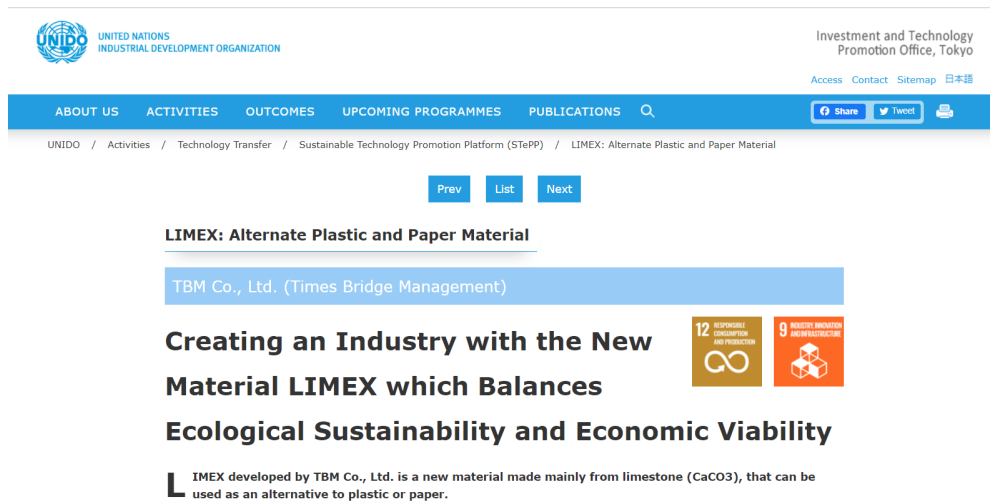
Value obtained by dividing the annual water usage at the Shiraishi Plant (excluding 15% of domestic water) by the annual production

The estimated amount of domestic water was smaller than the "Unit water supply amount / usage time / personnel table by building type" of the Tokyo Metropolitan Government "Water Supply Facility Design / Construction Standards".

Technical evaluation of LIMEX

LIMEX basic patents have been applied for in more than 40 countries around the world and have been registered in 40 countries including Japan, China, Europe and the United States.

Registered in the sustainable technology dissemination platform "STePP" by UNIDO
(United Nations Industrial Development Organization)



Participated as a member of the Japanese government delegation at the COP (United Nations Framework Convention on Climate Change) for the second consecutive year. Disseminate LIMEX's business as a technology that can contribute to a sustainable society by holding events and exhibiting booths.



G20 Exhibited at the G20 Innovation Exhibition at the G20 Ministerial Meeting on Energy Transformation and Global Environment for Sustainable Growth



Received "Venture Company Award" at "18th GSC Award" sponsored by Green Sustainable Chemistry Network Conference, Public Interest Incorporated Association New Chemical Technology Promotion Association

Global expansion of LIMEX | Mongolia

Basic agreement for commercialization of LIMEX in Mongolia, where water resources are scarce

水資源が乏しいモンゴルでの LIMEX 事業化に向けた基本合意

- Mongolian National Development Agency (Mongolian Government)
- Limex Mongolia LLC

Contents of the basic agreement

- TBM, Limex Mongolia, and the National Development Agency of Mongolia are promoting the following efforts toward the full-scale development of the LIMEX business in Mongolia.
- Conducted a feasibility study for the establishment of a new factory for LIMEX sheets using Mongolian limestone
- Conducted test marketing to manufacture and sell LIMEX at a local plastic molding factory in Mongolia
- Considering infrastructure development and policy support to realize a circulation model by collecting and upcycling LIMEX, and standardization of LIMEX

TBM、Limex Mongolia LLC、モンゴル国家開発庁と基本合意締結 ～モンゴルでの LIMEX の事業化に向けた検討を開始～

石灰石を主原料とし、原料に水や木材パルプを使用せず紙の代替や、石油由来原料の使用量を抑えてプラスチックの代替となる新素材「LIMEX（ライメックス）」を開発・製造・販売する株式会社 TBM（本社：東京都中央区、代表取締役 CEO：山崎敦義、以下 TBM）は、Limex Mongolia LLC（本社：モンゴル、プレジデント：Tsogtbaatar Shagdar、以下 Limex Mongolia 社）、モンゴル国家開発庁（モンゴル政府）と、水資源が乏しいモンゴルにおける LIMEX の事業展開に向けた、基本合意を締結致しました。今後、本基本合意に基づきモンゴルにおける LIMEX 事業のフィージビリティスタディを進めると同時に、本件を契機に TBM は、LIMEX 事業のグローバル展開を加速して参ります。



調印式より。左から、D.バッチャルガル（駐日モンゴル国特命全権大使）、T. Shagdar（Limex Mongolia 社プレジデント）、B.バヤルサイハン（モンゴル国家開発庁長官）、山崎敦義（TBM 代表取締役 CEO）、D.スミヤバザル（モンゴル国鉱山・重工業大臣）※敬称略

Global expansion of LIMEX | Henan Province, China

Promoting LIMEX commercialization in anticipation of expansion throughout China

中国全土への展開を見据え、LIMEX事業化の検討を開始



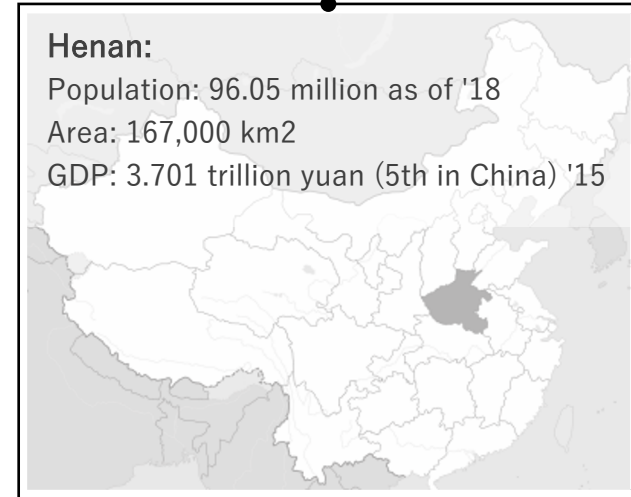
Henan Province, China

- Yuzi (a provincial fund in Henan Province)
- ITOCHU
- XinJin (Investment platform established by CITIC Group)



Company name	CITIC Group Corporation/中国中信集团有限公司
Capital	205.3 billion yuan (about 3.4 trillion yen)
No. of employees	About 300,000 people
Business content	Finance, resources, manufacturing, construction, real estate, etc.

Henan:
Population: 96.05 million as of '18
Area: 167,000 km²
GDP: 3.701 trillion yuan (5th in China) '15



Bio Face - Skin-friendly antibacterial mask knitted with plant-derived yarn-

Polylactic acid, the main ingredient, is derived from plants and has biodegradable environmental performance, as well as the same weak acidity and antibacterial properties as human skin.

A mask that has practical functionality such as convenience that can be washed and used repeatedly and comfort.



Traditional masks are "disposable plastic"

Many traditional masks are made of petroleum-derived plastics such as polypropylene. Due to COVID-19, the consumption of masks has increased, which lead to masks ending up out in the sea.



EC business "ZAIMA"

Aiming to create sustainable lifestyles and values together with customers, we started an e-commerce that directly connects sustainable products that uses "eco-friendly materials" and customers.

≡

ZAIMA

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ダウンロードを表示します

CHOICE
FOR
FUTURE.
ZAIMA



Bio Faceを購入する

▽



LIMEX
Mask Case
自分を守る。地球も守る。



LIMEX
Clear File
石から生まれたクリアファイル。



uni LIMEX
美しい、地球の未来を描こう。

ZAIMAは、これからの時代のセレクトショップです。

Future outlook

SDGs X TBM

Eight core goals set by TBM

GOAL 12

Responsible Consumption and Production

We aim to contribute to the environment by continuing to circulate abundant resources.

We will also strengthen our contributions to society and the economy by creating employment and industries in disaster-stricken areas and water-scarce areas.

And above all, we will increase the impact we have through various partnerships.



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