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# MEGANITE ESG REPORT

HEALTHY LIVING WITH  
CRYSTALLINE-SILICA-FREE SOLID SURFACE

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2023 / 2024

**MEGANITE**<sup>®</sup>  
Acrylic Solid Surface

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[www.meganite.com](http://www.meganite.com)



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## MESSAGE FROM OUR FOUNDER

Climate change is real and impacting everyday lives.

Meganite has revisited what sustainability means to us today and tomorrow.

To us, it means being a solid sustainable partner to the creative community. We strive to enable responsible designs with cradle-to-cradle multidiscipline accountabilities across the value chain.

In a nutshell, fighting climate change takes a team with a long-term dedication to reduce, reuse, and reinvent.

In this report, we invite you to review and criticize our results and plans.

Together, let's contribute, impact, and improve for a better tomorrow.

Sincerely Yours,

James Lai

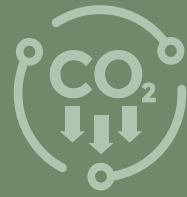
Founder and President

# 2023 / 2024'S KEY CO<sub>2</sub> - GOALS AND MILESTONE



**80%**

of production energy is running on renewable energy



**10,000 TON**

CO<sub>2</sub> Offset via the United Nation



**10%**

reduction in total energy used per year



**100 METRIC TON**

of solid waste turned into raw material for another industry





# OUR CERTIFICATIONS

## ENVIRONMENT



Environmental Product Declaration (EPD)



Leadership in Energy and Environmental Design



SCS Recycled Content



the Restriction of Hazardous Substances (RoHS 3) directive, EU Directive 2015 / 863



Mindful Materials



the EU Reach Regulation (EC 1907 / 2006)

## HEALTH



National Science Foundation — Food Safety



GREENGUARD® & GREENGUARD® GOLD



Health Product Declaration (HPD)



SILICA-FREE SURFACE  
HEALTHY LIVING  
Meganite Acrylic Solid Surface  
Silica-Free Surface

## SOCIAL



United Nation Sustainable Development Goals

## GOVERNANCE



Quality management systems — Requirements

# GOAL & VISION

## THE WORLD IS CHANGING, AND SO IS MEGANITE!

We strive to develop sustainable products with minimal production waste and high efficiency, demonstrating our commitment to environmental sustainability.

In 2022, Meganite hired third-party professionals to conduct a review of our production, transport, and supply chain's carbon impact and emissions and summarize them into an Environmental Product Declaration (EPD). In the EPD, the Life Cycle Analysis (LCA) uses scientific models to calculate CO<sub>2</sub> emissions in each part of our value chain. From this transparency process, we identify several sustainability pillars to reinvent ourselves.



### ENERGY PILLAR

- Decrease reliance on high CO<sub>2</sub> emission energy sources with the construction of 1000 MW of solar panels.
- Continue to reduce total energy used by Meganite by 10% Y-to-Y
- Allocate no less than 3% of yearly profit toward United Nations Carbon Offset programs.



### MATERIAL CONSERVATION / RESPONSIBLY PILLAR

- Reduce overall solid waste from production by 10% or more per year.
- Implement sustainable packaging with initiatives for all global distributors to reuse / exchange wooden pallets by 2026.
- Reuse at least 100 metric tons of acrylic products' sanding dust and trims as raw materials for other products. Grow this target with at least a 10% increment yearly until all sanding dust and trims are used by 2026.



### INNOVATION PILLAR

- Continue to research and test sustainable resin systems to replace current polymers.
- Build and sustain a 2nd Life Recycling Solid Surface program via fabrication and distribution network globally by 2025.
- Yearly release 2 new building material products from industrial waste and consumer waste.
- Allocate 5% of annual profit with an initial funding of USD 500,000 for the new department – Sustainable Products and Product Management – to fund research and development of circular economy products.



### SOCIAL PILLAR

- Build plastic education outreach programs and expand community recycling stations and workshops in Taiwan via Taiwanderful.
- Collaborate with senior leaders towards a robust United Nation's plastic treaty and participate in the 2023 Global Plastic Summit.
- By 2026, process at least 2,500 sq meters / 27,000 sq ft per year of refused products into 2nd life finish goods such as plates, tables, cutting boards, etc. 100% of the proceeds to go back into funding this program and other communication outreach programs continually.
- Fund 100 AcryMed-enable Americans with Disabilities Act (ADA) rehab tables for chronic neural rehab for children and seniors in the Veterans Health (VA) system and economically deprived clinics / hospitals by 2026.



Scan to view full EPD report



# SUSTAINABLE PRACTICES

At Meganite, we don't just talk about sustainability; we embody it in everything we do. Our commitment to environmental responsibility extends far beyond mere awareness.

It's a proactive journey that guides every step of our product lifecycle, from manufacturing transparency, eco-conscious transportation solutions for samples and products to meticulously managing energy consumption during manufacturing, encompassing electricity and water usage.

We believe in making sustainability tangible and impactful, not just a concept.

# MANUFACTURE & TRANSPARENCY

From raw materials to the final products, Meganite showcases our commitment to sustainability. By crafting our products in 100% acrylic and without adding additional additives, we achieve exceptional durability, providing years of reliable performance and substantial cost savings in maintenance.



## CRYSTALLINE SILICA FREE

Your health and living quality are of the utmost importance to us. Meganite Solid Surface is meticulously crafted without any toxic substances, fully complying with the Restriction of Hazardous Substances (RoHS 3) directive, EU Directive 2015 / 863.

Meganite Solid Surface is composed of resin and acrylic, without any crystalline silica components, promoting a healthy living workspace for both the environment and workers during the fabrication process.



**SILICA-FREE SURFACE**  
HEALTHY LIVING

Meganite Acrylic Solid Surface



Scan to learn more about Crystalline Silica

## ENVIRONMENTAL PRODUCT DECLARATIONS (EPD)

Meganite Solid Surface has Type III Environmental Product Declarations (EPD), which serve as independent verification, marks and documents the ecological assessment of the entire life cycle of a product.

This document provides transparency and demonstrates our commitment to a responsible production process that prioritize both the environment and human well-being.



Scan to view full EPD report





## HEALTH & SAFETY

Meganite products have obtained several certifications that highlight our commitment to safety, sustainability, and environmental responsibility. These certifications include NSF certification for food contact safety, Mindful Materials certification for their positive environmental attributes, and LEED certification, recognizing their contribution to sustainable building practices.

Additionally, our products promote better indoor air quality and comply with the EU Reach Regulation (EC 1907 / 2006), GREENGUARD® and GREENGUARD® Gold certification.



**SUSTAINABLE  
DEVELOPMENT  
GOALS**



## COMMITMENT TO UNITED NATIONS' SUSTAINABLE DEVELOPMENT GOALS

Committed to a sustainable and responsible business ecosystem, we prioritize the well-being and dignity of every individual in our operations.

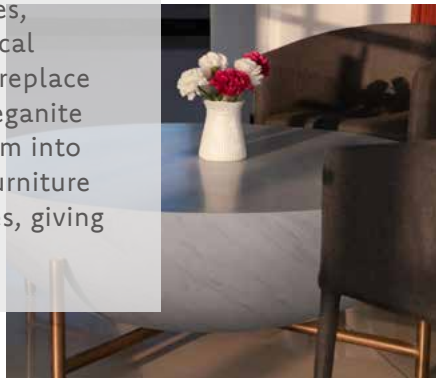
We uphold human rights, ethical practices, and support the United Nations' Sustainable Development Goals through Meganite's child labor policy statement and slavery statement.



# SECOND LIFE PROGRAM

As part of our commitment to sustainable solutions, Meganite has introduced the Second Life Program in 2023.

By leveraging the renewable advantages of solid surfaces, we collaborate with the local community to restore and replace customers' phased-out Meganite products, transforming them into bespoke and meaningful furniture tailored to your preferences, giving them a renewed purpose.



# RECYCLED PRODUCTS



Meganite Recycled Series, designed to minimize production and landfill waste, offers the flexibility to choose the ideal material for your projects. This optimized material consumption aligns with your specific needs while incorporating 6% recycled content sourced from our pre-consumer materials.

Additionally, the series carries certification from SCS (Scientific Certification Systems), providing validation of its sustainable composition.

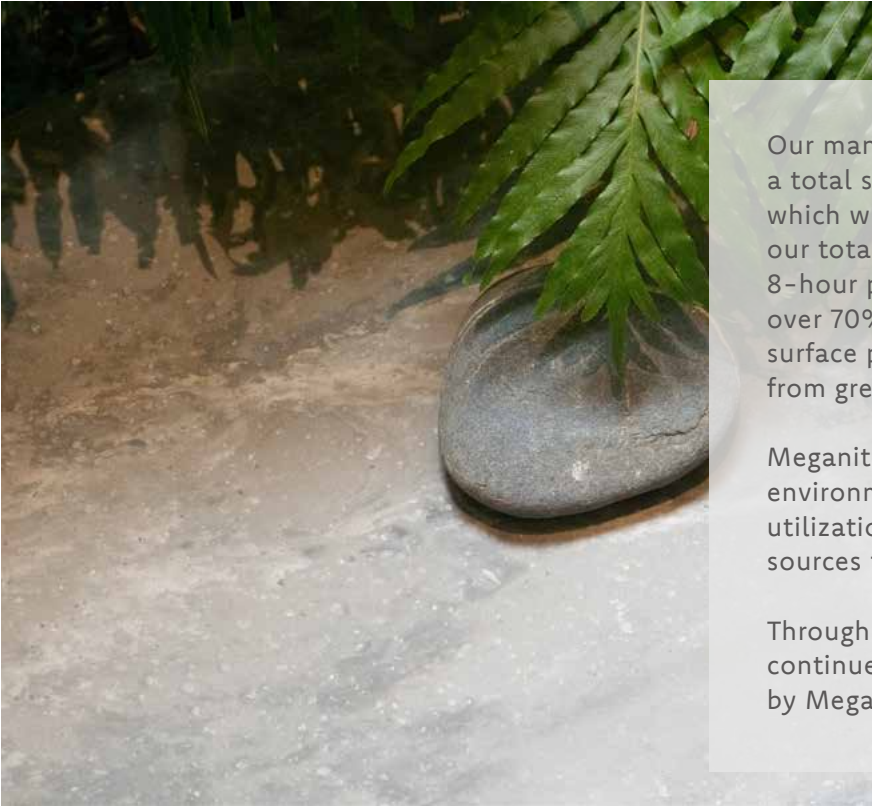
\* SCS Recycled Content Certification independently verifies the percentage of a product that was made from recycled content or recycled materials. This certification is for product manufacturers that use post-consumer or pre-consumer recycled content and want to make a verified claim. Material that has been reprocessed from recovered material can also get certified.

(n.d.). Recycled Content Certification For Products and Recycling Programs. SCS Global Services. <https://www.scsglobalservices.com/services/recycled-content-certification>





## GREEN ENERGY



Our manufacturing factory is set to house a total solar panel capacity of 1,000 KW, which will cover approximately 80% of our total energy consumption during an 8-hour production cycle. This means that over 70% of the energy powering our solid surface production lines will be derived from green sources.

Meganite is actively engaged in reducing environmental impact through the utilization of clean and sustainable energy sources from our local region.

Through the integration of solar power, we continue to reduce the total energy used by Meganite by 10% Y-to-Y.

## TRANSPORTATION



The majority of carbon emissions can be attributed to transportation. To reduce these emissions, Meganite opts for reliable marine transport services that prioritize the protection of the natural environment by minimizing pollution and greenhouse gas emissions in line with the IMO GHG Strategy.

In addition to eco-friendly marine transport, we collaborate with a third-party parcel service, using carbon-neutral boxes for sample deliveries to minimize packaging material.

Furthermore, the efficient design of our solid surfaces allows for maximum loading quantities in containers due to their smaller volume and weight, reducing transportation emissions and saving on additional costs associated with heavy equipment machinery.







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and improve for a better tomorrow.

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