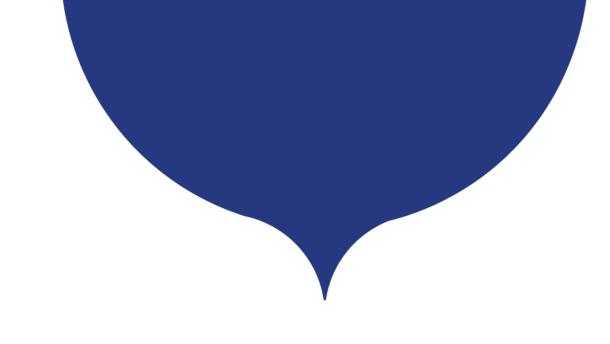


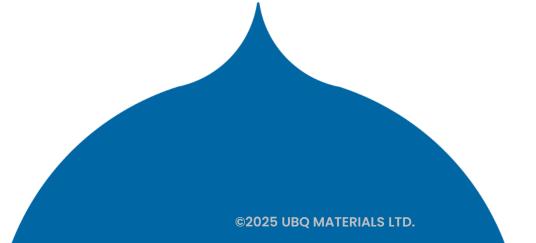
UBQ Materials: A Cost Competitive, Here and Now Solution

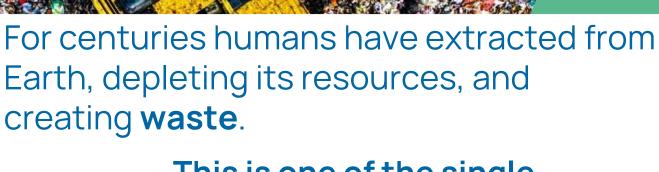
June 11, 2025











This is one of the single biggest threats to our planet.

400M tons of virgin plastic produced globally every single year

> 2B tons of Municipal Solid Waste are produced annually

of global Municipal Solid Waste is Recycled.

>1.6B tons of CO2 eq of GHG emissions annually generated from solid waste

THERE IS A SOLUTION: UBQ USES THIS WASTE

SOURCE; WHAT A WASTE 2.0: A GLOBAL SNAPSHOT OF SOLID WASTE MANAGEMENT TO 2050 (2018)



Netherlands Production Facility

Fully Operational

80,000

Tons Annual Capacity

ZERO

operational water consumption

ZERO

combustion

ZERO

effluents

ZERO

emissions



YOU SEE WASTE. WE SEE ENDLESS POSSIBILITIES.

Landfill & incineration bound waste, including all organics, and hard-to-recycle waste, becomes the singular feedstock used to make UBQ™.

A HERE
AND NOW
SOLUTION!



THE SOLUTION: UBQ™ MATERIALS

Converting organic and hard-to-recycle waste into a sustainable plastic alternative



WASTE

Mixed municipal household waste, including organics & hard-to-recycle materials, diverted from landfills and incinerators.



PROPRIETARY UBQ™ MATERIAL

UBQ Materials' advanced conversion technology transforms waste into **UBQ™**, a **climate-positive thermoplastic**.





DIVERSE PRODUCTS

UBQ™, a new substitute to fossil-based resins enables you to create more sustainable products without extracting new resources from the planet.

UBQ Material Processing & Production





Leftover household waste arrives







Any remnants of minerals, metal and glass are removed





Breaking the organic material into its basic building blocks and binding it with inorganic materials





Conversion process using green energy, no water added.





Reconstruction of the matrix into our new bio-based matrix, **UBQ™**





UBQ™ material can replace conventional plastic or be mixed with most polymers to create more sustainable products

COMPLIANCES, CERTIFICATIONS AND VERIFICATIONS

Innovation that achieves the highest industry standards

COMPLIANCES













CERTIFICATIONS & VERIFICATIONS











NEAR FOOD CONTACT STANDARD USA & EUROPE













Industry Leaders Choose UBQ™





















EXPANDING UBQ PARTNER ECOSYSTEM

CONNECTING THE GLOBAL SUSTAINABILITY VALUE CHAIN

Global brands, retailers, manufacturers, and compounders use UBQ™ material throughout their supply chain to accelerate their environmental goals.



UBQ™ is a climate positive, thermoplastic composite, made from household waste, including all organics.

It enables you to create more sustainable products without extracting new resources from the planet.



Cost competitive with most oil-based polymers





A cost-stable solution, unaffected by fluctuations in fossil fuel prices



Suitable for durable and semi-durable applications, meeting most performance requirements





Compatible with **existing processes**, **polymers**, and **equipment**



Safe for both people and the environment



Produced using 100% solar and wind energy, with zero water usage and no effluents

Thanks to the JTF for UBQ Supported Projects

Masterbatch Product Development



Energy Monitoring System



Technotrans
Heating System →
Improved Energy
Efficiency



Process
Optimizations to
Increase Efficiency
& Product Quality

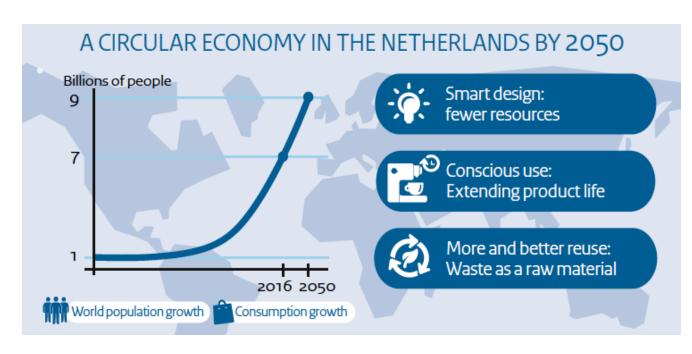






Sustainability Targets Driving Business Practices

- Netherlands Circular Economy Program
 - Fully Circular by 2050
 - 50% reduction in primary raw material use by 2030
- National Climate Agreement
 - 49% CO2 reduction by 2030
- UPV Dutch EPR Rules
 - Post-consumer waste strategies
- Upcoming ETS (Emission Trading Systems)
 Modifications and Improvements
 - Inclusion of municipal waste incineration and landfilling
 - Permanent carbon removals
 - Carbon accounting landscape shift from 100 to 35 years in building & construction
 - Non-permanent carbon capture and use



Renewing Waste to Evolve Plastics

Every kilogram of waste incinerated represents a lost opportunity for circularity.



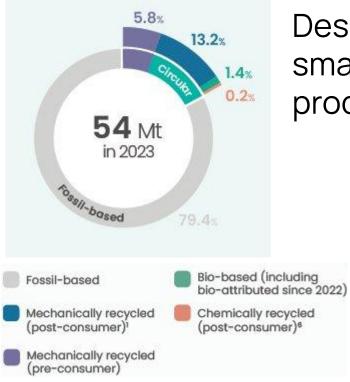
The Netherlands burns over 3 million tonnes of waste annually, equating to:

- 90 million tonnes of "ecological rucksack" at a MIPS ratio of 30:1
- 18 million tonnes at a MIPS ratio of 6:1

By converting waste into 80,000 tonnes of UBQ Material, we prevent between 480,000 & 2,400,000 tonnes of negative impact on the Planet.



Turning Garbage into the Solution for Plastics



Despite decades of investment, only a small fraction of Europe's plastic production is genuinely recycled.

UBQ addresses **Both** Waste & Recycling Challenges by:

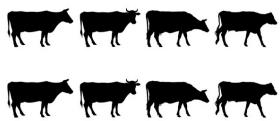
- Replacing fossil-based plastics
- Upcycling household waste—including mixed plastics into high-performance materials



Garbage as the Key to Reducing Dutch Emissions

New housing in the Netherlands is constrained by a 47 Mt CO₂ cap (2023 allocation)

The UBQ Netherlands facility carbon removal can offset the CO₂ equivalent of ~27,000 dairy cov



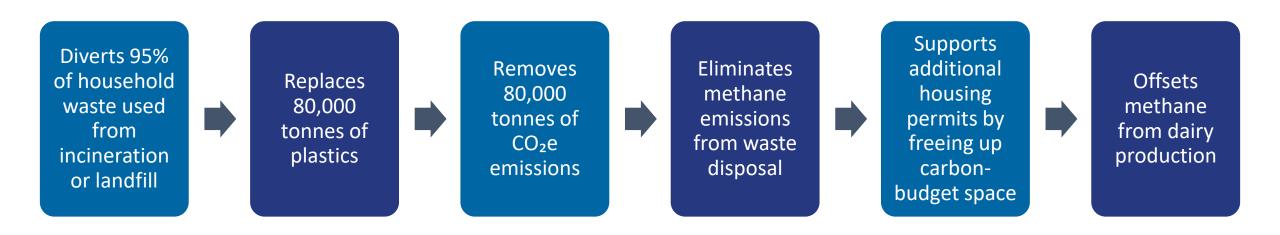


Even further, taking avoided emissions into account, the net greenhouse-gas benefit rises to **6-8 X that amount**—and even more with our NEW hemp-based UBQ-Bio product



UBQ is Renewing the Planet - Today

At Full Capacity, our Netherlands Plant:

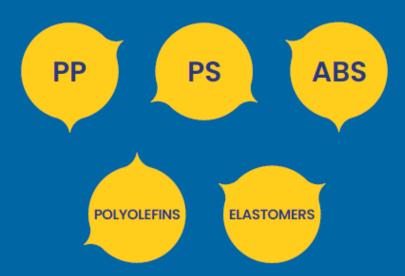


Make the Netherlands a Global Leader in Circularity
Partner with UBQ to Demonstrate a Truly Circular Economy

UBQ Masterbatch Portfolio

MASTERBATCH

The **UBQ™ Masterbatch** Portfolio makes it easy to combine with many polymers such as:



UBQ™ Masterbatch is ideal for **injection molding**, and includes a **low flow option** for **extrusion**.



EASY HANDLING & INTEGRATION

- Dust free feeding with conventional plastics infrastructure
- Avoids or reduces need for drying



EXCELLENT DISPERSION & CONSISTENCY

- Maintains mechanical and flow properties of the polymer
- Consistent low odor processing



COST COMPETITIVE

• Enabled by high concentration of **UBQ™**, lower handling costs, excellent dispersion & performance consistency



MEASURABLE CARBON IMPACT

 UBQ™ production yields negative carbon footprint

Benefits of UBQ Masterbatch



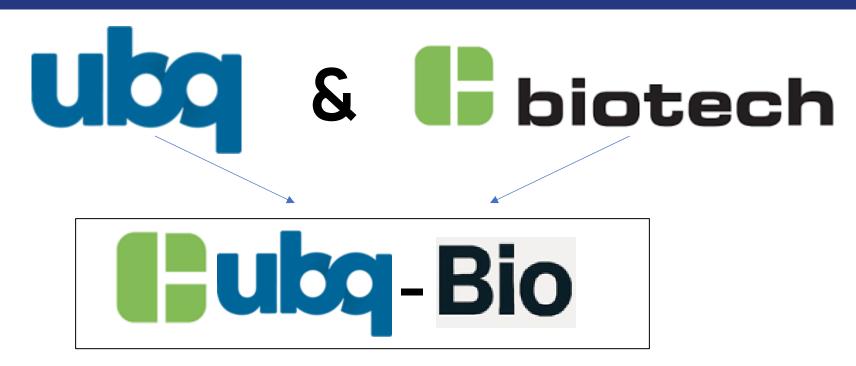
Benefits of Masterbatch All trials completed in less than 4 hours!

5/15% UBQ with Various Color Batches





Strategic Partnerships for Innovation



UBQ & Hemp Combine to Form the Optimal Sustainable Material for Building & Construction

Quality
Durability
High Performing
Cost Competitive

CONSUMER DURABLES



REAL LIFE SOLUTIONS Many Products Can be Made with UBQ Today!

BUILDING & CONSTRUCTION



SUPPLY CHAIN & LOGISTICS



AUTOMOTIVE



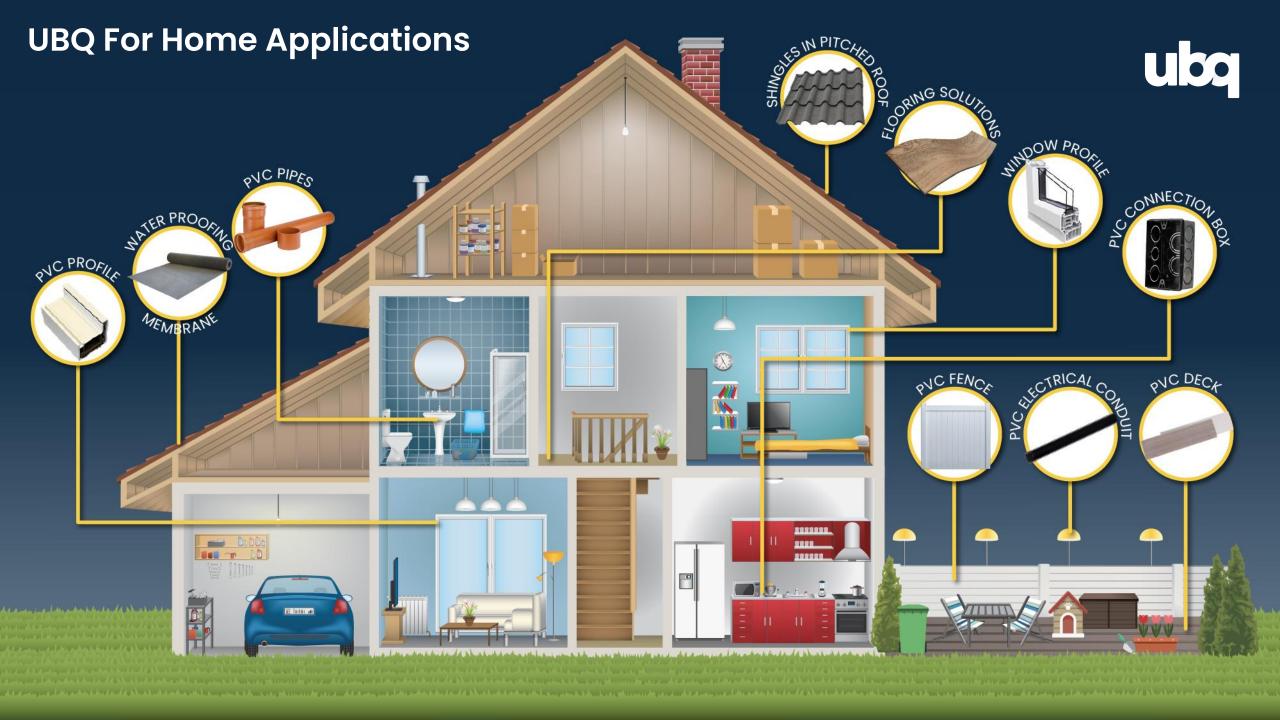




UBQ for Retail Applications

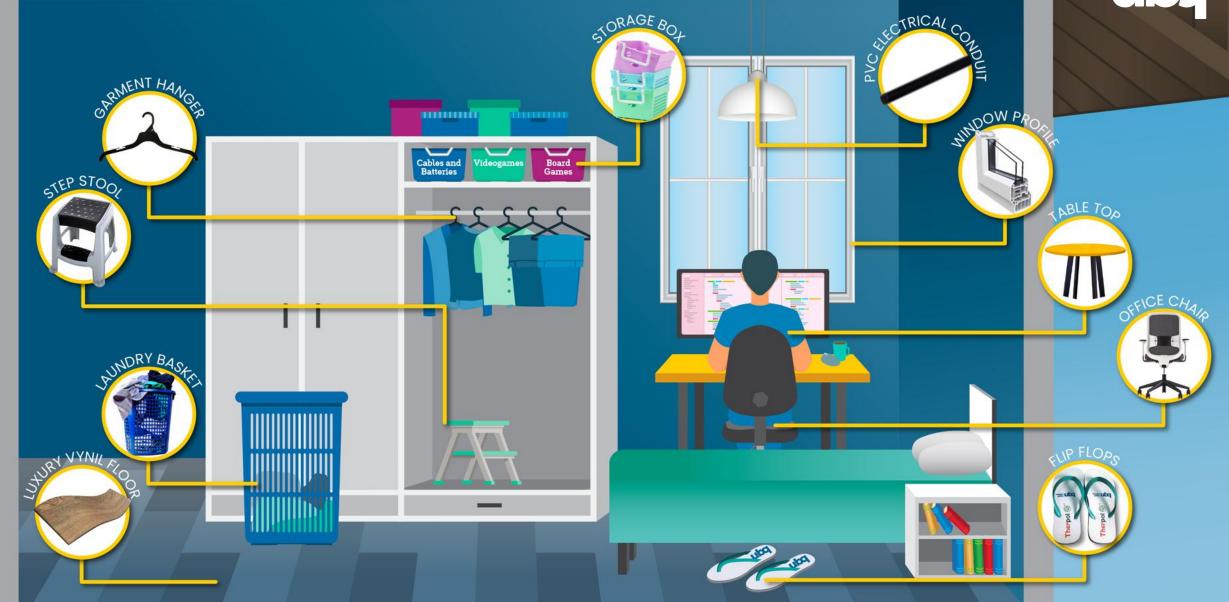


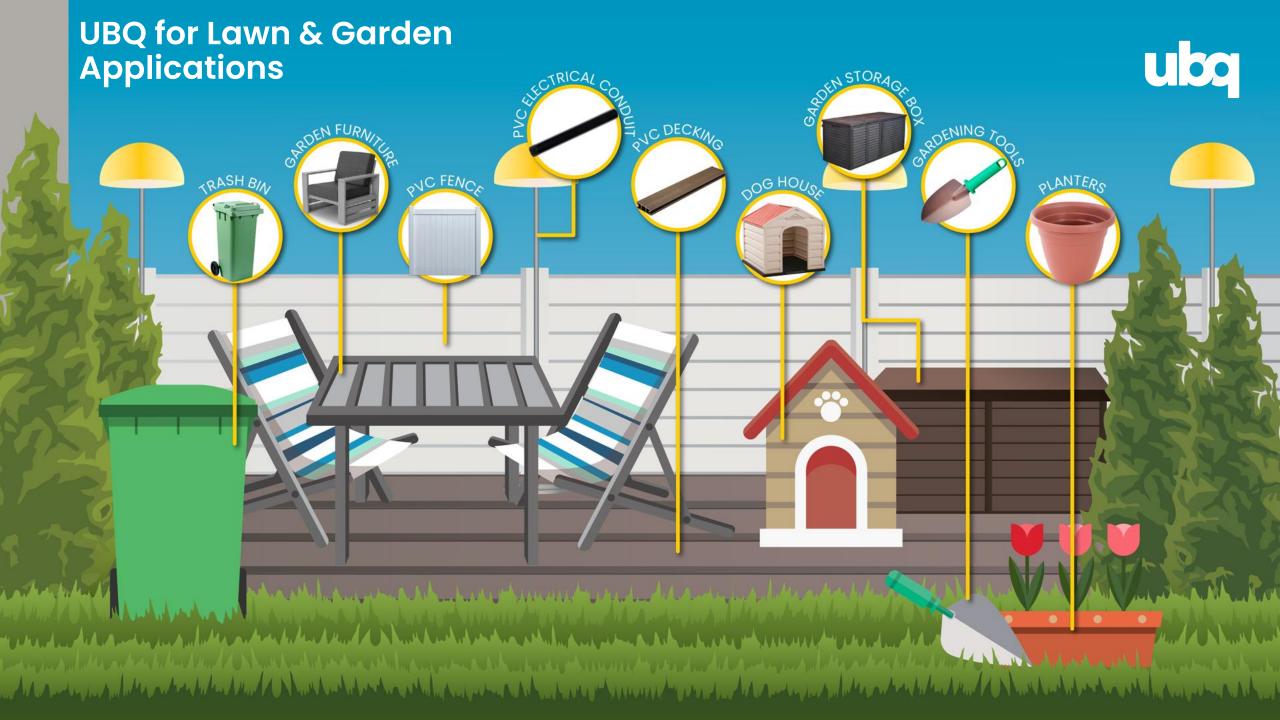




UBQ For Home Applications

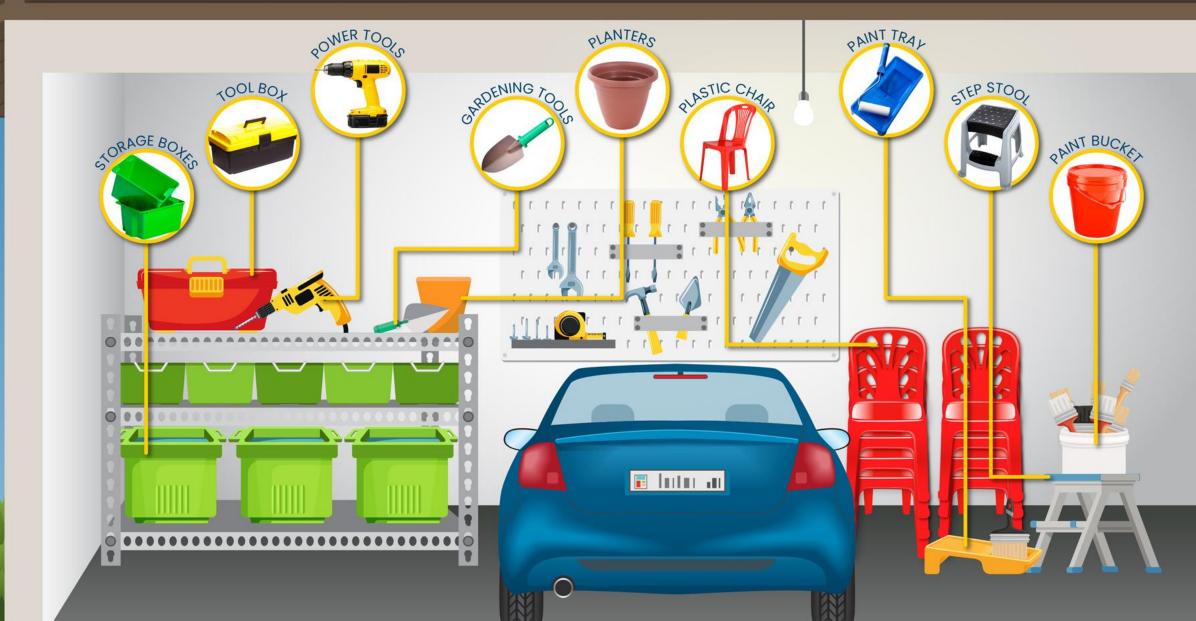






UBQ For Garage Applications

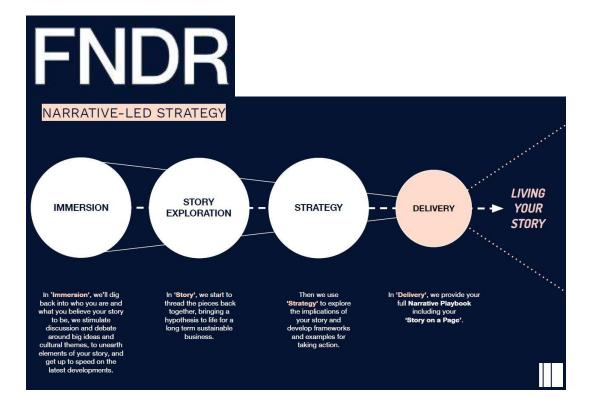




What's Coming...

Consumer Marketing Strategy

- Agency Retained to Refine UBQ Story to
 - Better resonate with consumers
 - Build cultural relevance and brand trust, and
 - Accelerate adoption



Carbon Monetization Project

- UBQ Biogenic Removal
- Registry Partner: Riverse
 - Leading EU Registry for Carbon Removals of Durable Products
- Initial Indications Obtained in July
- EU Regulation: The EU CRCF (Carbon Removals and Carbon Farming) framework is working to lower the permanence threshold to 35 years to facilitate removal claims in durable products.







CARBON STORAGE IN LONG-LASTING PRODUCTS

E.g. wood-based construction materials and other carbon-storing construction products

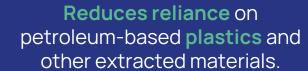


UBQ™ is a climate positive, thermoplastic composite, made from household waste, including all organics.

It enables you to create more **sustainable products** without extracting new resources from the planet.



ubq





in formulations helps you move towards carbon-neutral or climate-positive goals.



Highly recyclable, promoting resource conservation and advancing the circular economy.





Removes carbon from the atmosphere through the biogenic processes in the organic material.



Avoid methane and carbon emissions generated by the decomposition of organic waste in landfills.



Encapsulates microplastics present in the waste, preventing their release into the environment.





THANK YOU!

LEARN MORE UBQMATERIALS.COM

FOLLOW US











Subscribe to our **UBQ TALKS SERIES**

