

sustained
bioglycols

**PLANT-BASED
DROP-IN SOLUTIONS
FOR A LOW-CARBON
FUTURE**



Who We Are

Sustainea aims to lead the **global Bio-MEG market**. Utilizing breakthrough technology, we offer a shift to a **sustainable, low-carbon circular economy**. Established as a joint venture between **Braskem**, a Brazilian petrochemical company, and **Sojitz**, a Japanese trading company, Sustainea was created to drive innovation in **renewable chemicals** and transform the **packaging and textiles markets** by replacing fossil-based inputs with renewable alternatives.



What We Do

Sustainea produces **Bio-MEG** and **Bio-MPG** from sustainably **sourced corn-derived dextrose** using an advanced **one-step process**. These next-generation glycols are **drop-in solutions** that match the **quality and functionality** of their traditional fossil-based counterparts, while contributing to **large-scale decarbonization**.

Our **first industrial plant** will be strategically located in Lafayette, Indiana, USA, where we will use corn dextrose cultivated under **regenerative agriculture** practices to produce our sustainable solutions. This approach ensures a **renewable and responsible feedstock** supply, supports the development of a **sustainable value chain**, and reinforces our commitment to a **low-carbon economy**.

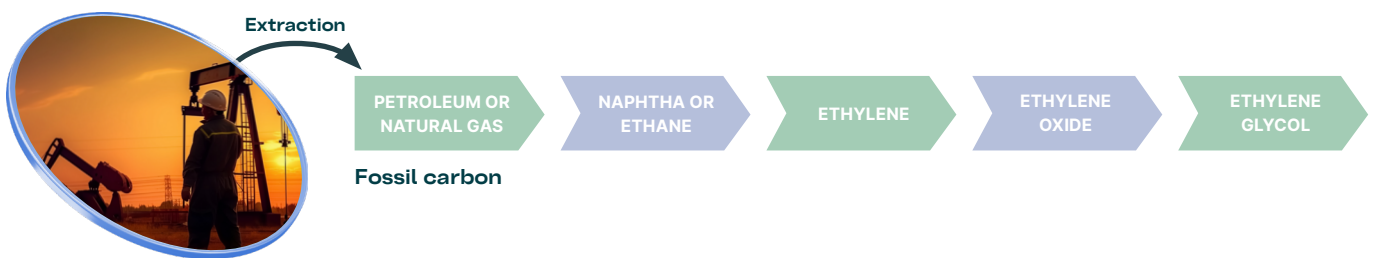


From Fossil to Plant-Based

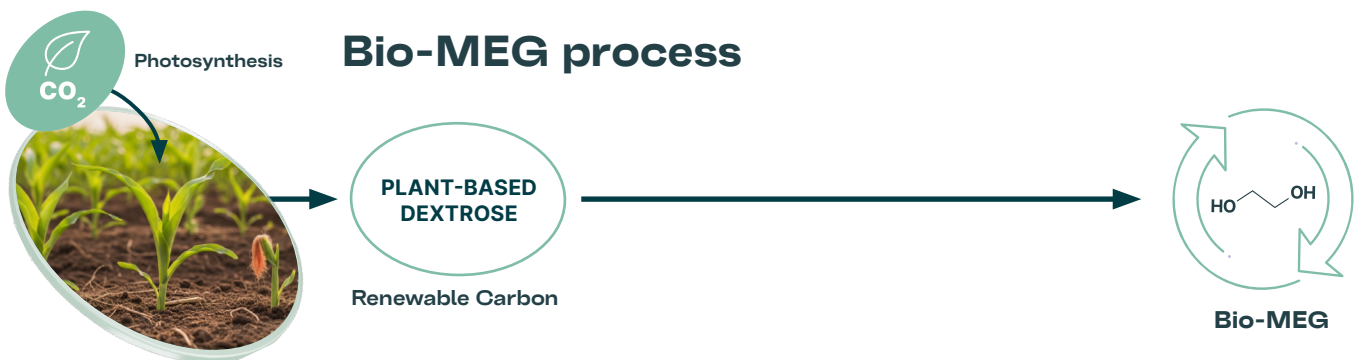
One-Step Innovation For a Low-Carbon Future

Conventional MEG production depends on fossil fuel derived raw materials and involves multiple energy-intensive steps. Sustainedea offers a simplified, renewable alternative. Our innovative technology converts plant-based sources into **Bio-MEG** in a single step, reducing environmental impact and enabling a more sustainable value chain.

Conventional fossil MEG process



Bio-MEG process



Benefits:

One-Step Catalytic Process.
A technology that reduces inputs
and emissions.

Core Advantages



Renewable Origin:

Plant-based feedstock selected through a responsible sourcing program that ensures environmental and social standards.



Regenerative Agriculture:

Improves soil health, enhances carbon fixation.



Drop-in Solution:

Plant-based, low-carbon glycols are drop-in solutions that integrate seamlessly into existing processing value chains.



Recyclable Compatibility:

Fully recyclable within existing recycling infrastructures, requiring no changes to current systems.



Biogenic Carbon

Traceability:

Segregated production allows easy tracking of biogenic carbon content through C-14 analysis.



One-step Production:

Fewer inputs and lower emissions.



Consistent And Scalable:

Meets industrial-grade standards.



Low-carbon Footprint:

Supports decarbonization goals. Important reduction of CO₂ emissions in comparison with fossil.

By combining renewable raw materials, regenerative agriculture practices, and advanced technology, Sustainedea enables industries to reduce their environmental footprint without compromising performance.



Bio-MEG (Monoethylene Glycol)

Sustainea **Bio-MEG** is a plant-based glycol designed to be used as a **chemical intermediate in several market sectors**, such as **packaging and textiles**. It offers the **same quality and functionality** as fossil fuel derived MEG, while helping to transition value chains toward a **low-carbon future**.

Applications:

PET Resin

Bottles and Containers

Thermoformed Containers

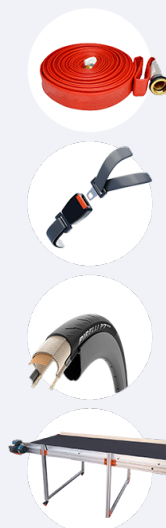


Polyester Fibers

Apparel

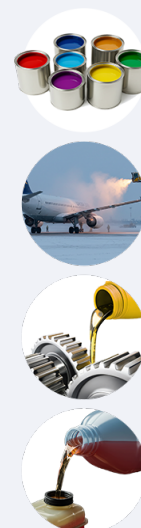
Home Furnishing

Industrial



Industrial Uses

Coolants, De-icing Fluids and Paints & Coatings



Benefits:

- Plant-based and renewable.
- Drop-in compatibility with existing processes.
- Supports defossilization and decarbonization.

Analysis

Purity (wt%)

Appearance

Water (wt%)

DEG content (wt%)

Acidity as acetic acid (wt%)

UV-T at 220 / 275 / 350 nm (%)

Typical value

> 99.9

Clear Colorless liquid

< 0.05

< 0.05

< 0.001

> 70 / > 90 / > 98

Bio-MPG (Monopropylene Glycol)

Sustainea **Bio-MPG** is produced from renewable sources and meets the **high-quality** demands of **pharmaceutical, personal care, and industrial applications**. It is a direct substitute for fossil fuel derived MPG, offering the **same performance** with a **lower environmental impact**.

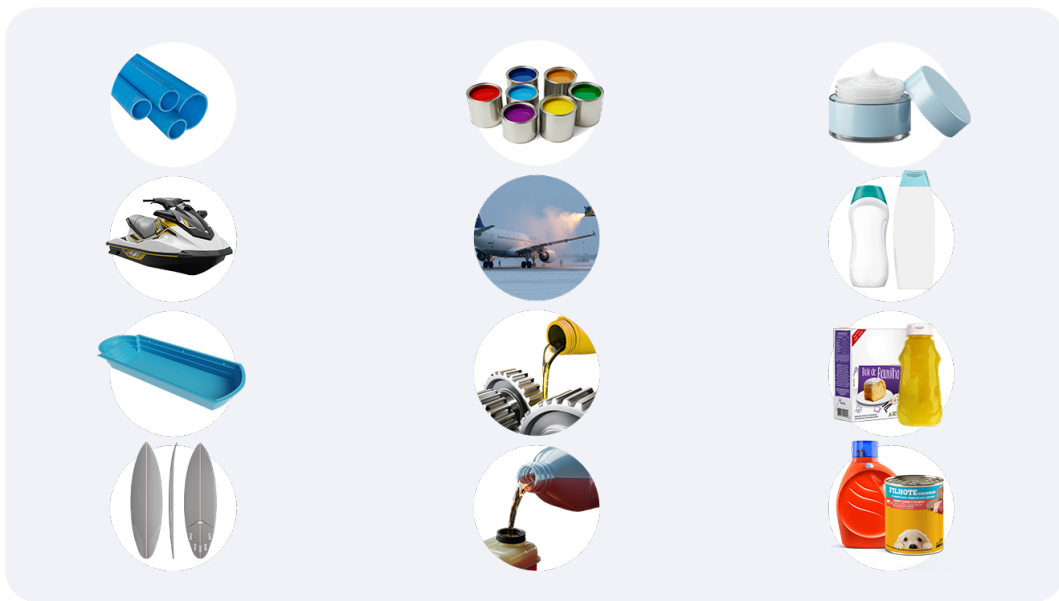


Applications:

Thermoset Resins

Functional Fluids & Solvents

Home and Personal Care



Benefits:

- Renewable feedstock.
- Versatile and high purity.
- Drop-in performance across multiple industries.

Analysis

Typical value


Purity (wt%)	> 99.5
Appearance	Clear Colorless liquid
Water (wt%)	< 0.2
MEG & DEG content (wt%)	< 0.1
Acidity as acetic acid (wt%)	< 0.002
Pb (ppm)	< 1
Heavy metals (ppm)	< 5

At Sustainea, we are committed to enabling sustainable transformations in the chemical industry.

**Join us to
shape a renewable,
low-carbon future.**

Contact us

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