Propylene glycol options with sustainability benefits

Dow's commitment to sustainability contributes towards our customers' low-carbon and circular goals.

Throughout our Propylene Glycol product lifecycle, we maintain a strong focus on significantly reducing our carbon footprint and prioritizing a circular approach, to minimize waste and maximize resource efficiency. Furthermore, we source materials from non-fossil feedstocks, reducing our ecological impact and diminishing reliance on finite resources.

Propylene Glycol applications

PGUSP
Flavor, pharma, personal care, food, animal feed

DPG LO+
Fragrance, humectant, cosmetics

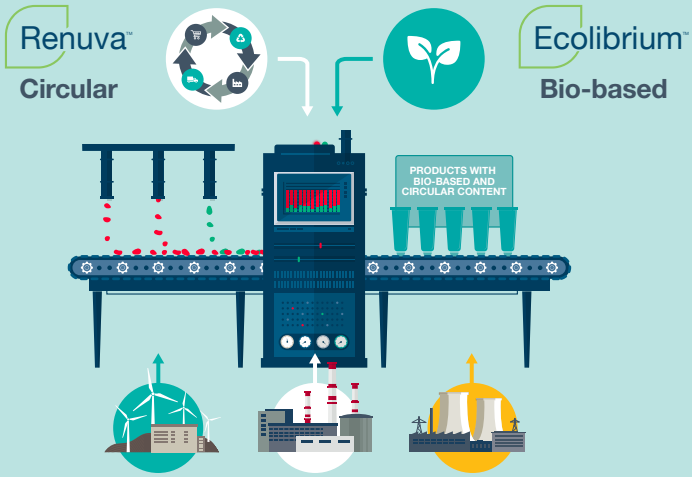
PGI
UPR, de-icing, detergents, agricultural, painting

DPG Reg
UPR, coatings, solvents, break fluids

TPG
Solvents, initiators, lubricants, textile soaps

Recycling using mass balance

At Dow we are implementing a rigorous and externally certified mass balance chain of custody verified by International Sustainability and Carbon Certification (ISCC) PLUS to trace the flow of bio-based* and circular materials through complex value chains and attribute it based on verifiable bookkeeping. In this way, we help enable our customers to reach their circularity targets.



Enabling a lower carbon footprint

Decarbia™ **Renewable energy sources**

We're helping our customers meet their Scope 3 targets by providing low-carbon products enabled by our decarbonization efforts. Low-carbon product footprints are calculated using the Carbon Footprint Ledger methodology, which is based on the existing market precedents of mass balance in GHG accounting.

The process uses mass balance to trace and verify the percentage of renewable energy used in our production.

Sustainability benefits

- **Displaces virgin fossil resources**
- **Commitment to CO_2 mitigation**
- **Zero impact on product quality**
- **Alternative feedstock solutions**
- **Traceability**
- **Enables a circular economy**

Disclaimer: Mass balance approach does not imply every product actually contains alternative feedstock.
* According to ISCC, feedstocks fall in the category of bio-circular.

RENUVA™ recycled technology helps keep end-of-life products out of the waste stream while reducing the need for virgin fossil-based feedstocks.

Propylene Glycol CIR featuring RENUVA™ recycled materials attributed via mass balance enables us to process hard-to-recycle post-consumer and post-industrial waste into sustainable feedstocks.

Ecolibrium™ bio-based technology enables a reduction in the use of fossil fuel-based feedstocks.

By introducing bio-based feedstocks into our production, we manufacture **Propylene Glycol REN featuring Ecolibrium™ bio-based material** attributed via mass balance utilizing biomass feedstocks as an alternative to virgin fossil feedstocks.

Made with renewable energy, **Propylene Glycol DEC featuring Decarbia™ reduced carbon solutions** enables a significant carbon footprint reduction.**

** The methodology is in accordance with Product Carbon Footprint standards, such as ISO14067, the GHG Protocol Product Standard, and industry guidelines.

Do you want to learn more?

Dow's PG offerings from Renuva™, Ecolibrium™ and Decarbia™ sustainability product portfolios are designed to help customers advance their circularity, bio-based product and GHG emission reduction goals.

Discover Dow's Propylene Glycol (PG) portfolio.

About Dow

Dow (NYSE: DOW) combines global breadth; asset integration and scale; focused innovation and materials science expertise; leading business positions; and environmental, social and governance leadership to achieve profitable growth and help deliver a sustainable future. The Company's ambition is to become the most innovative, customer centric, inclusive and sustainable materials science company in the world. Dow's portfolio of plastics, industrial intermediates, coatings and silicones businesses delivers a broad range of differentiated, science-based products and solutions for its customers in high-growth market segments, such as packaging, infrastructure, mobility and consumer applications. Dow operates manufacturing sites in 31 countries and employs approximately 37,800 people. Dow delivered sales of approximately $57 billion in 2022. References to Dow or the Company mean Dow Inc. and its subsidiaries. For more information, please visit **www.dow.com** or follow **@DowNewsroom** on Twitter.

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