



Plant the future with PLA

A 100% biobased plastic

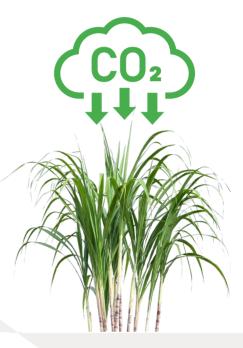
Shifting to **biobased materials** is efficient on resources and reduces environmental impact.

PLA is highly efficient in terms of land use, crop consumption, and lowering carbon footprints when compared to fossil-based plastic.

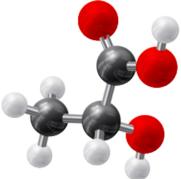
Read on to learn the about the PLA production pipeline and its benefits.

PLA bioplastic resin is sourced from plants like sugar cane

1.75 sq m² of sugar cane crop captures 1.83 kg of CO,



Sugarcane crop is processed in a sugarmill into raw sugar



Raw sugar is ransformed into lactic acid using a natural fermentation process

Lactic acid goes through a polymerization process which converts it into **PLA resin**

The carbon footprint of **1kg** of PLA resin is 0.5 kg CO,*

* including atmospheric carbon capture

PLA carbon footprint is on average, 5% lower than fossil-based plastic resins



CO₂



Land







Biobased PLA resin is used for a broad range of applications

Luminy[®] PLA is certified 100% biobased (EN16785) and USDA Biopreferred

Go to totalenergies-corbion.com to get in touch with the team and discover

how your manufacturing processes can adopt biobased PLA bioplastic product solutions.

Learm more at **totalenergies-corbion.com**

