

OUR **JOURNEY** TO A

CARBON NEUTRAL

CIRCULAR ECONOMY



A photograph of a woman and a young girl embracing and smiling. The woman is in the foreground, looking off to the side with a joyful expression. The girl is behind her, also smiling. A large, stylized blue graphic with a wavy pattern is overlaid on the left side of the image, partially obscuring the woman's face and the girl's shoulder. The background is a bright, outdoor setting with trees and a building.

DISCLAIMER

The content of this presentation is proprietary and confidential and solely intended for the personal and confidential use of its recipient(s). Any use, dissemination, distribution, or reproduction of this presentation together with its contents is not authorized without Braskem's consent and may be unlawful.

This presentation is for informational purposes only and Braskem does not in any way represent or warrant, express or implied, that the information contained in this presentation is complete, accurate, error free and/or suitable for any purpose, nor does Braskem accept any responsibility in this respect. Accordingly, it is the responsibility of the reader(s) to research the suitability of the information for its own purpose(s).





Schweppes

PRUEBA LA SOLA

JCDecaux

480

A vertical billboard on a street. The top section features a photograph of a woman in a yellow shirt and a man in a white shirt, both holding glasses of yellow beverage. Above the photo is the Schweppes logo and the text 'PRUEBA LA SOLA'. Below the photo is the JCDecaux logo. The bottom section of the billboard is a black panel with the number '480' displayed in large, glowing yellow digital characters.







12-22 h





Unilever

A net zero emissions world is possible

We have an ambitious plan to take us to net zero emissions by 2039.



One year on from our net zero 2040 ambition: how we're taking action



A Closer Look at P&G's Net Zero 2040 Ambition.



The climate footprint across the IKEA value chain

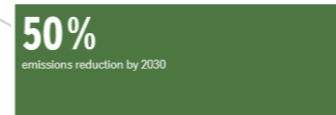
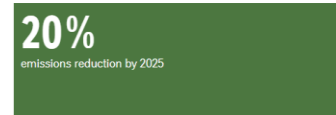
By 2030, we are committed to becoming climate positive by reducing more greenhouse gas emissions than the IKEA value chain emits, while growing the IKEA business. This is how we contribute to limiting the global temperature increase to 1.5°C by the end of the century.



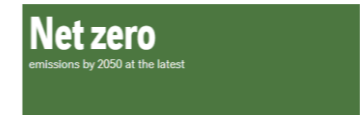
Tetra Pak commits to net zero emissions



Nestlé



Net zero by 2050



FORD EXPANDS CLIMATE CHANGE GOALS, SETS TARGET TO BECOME CARBON NEUTRAL BY 2050: ANNUAL SUSTAINABILITY REPORT

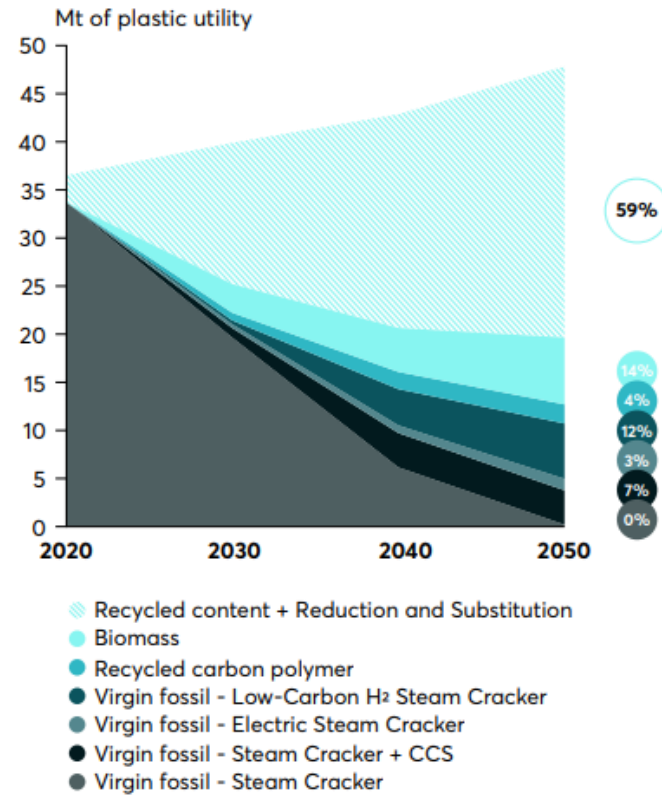
JUN 24, 2020 | DEARBORN, MICH.



ReShaping Plastics

PATHWAYS TO A CIRCULAR,
CLIMATE NEUTRAL PLASTICS
SYSTEM IN EUROPE

How demand for virgin plastic is met in the
Retrofit System Change Scenario (Mt)



DECOUPLE FROM FOSSIL FEEDSTOCK

Need to find alternative non-fossil carbon sources to improve sustainable production and consumption, together with increased recycling.

To reach a net zero chemical sector by 2050, the share of biobased feedstocks in chemicals must be approximately 14%.

Source: 2023 SitemiQ Report, "ReShaping Plastics" model

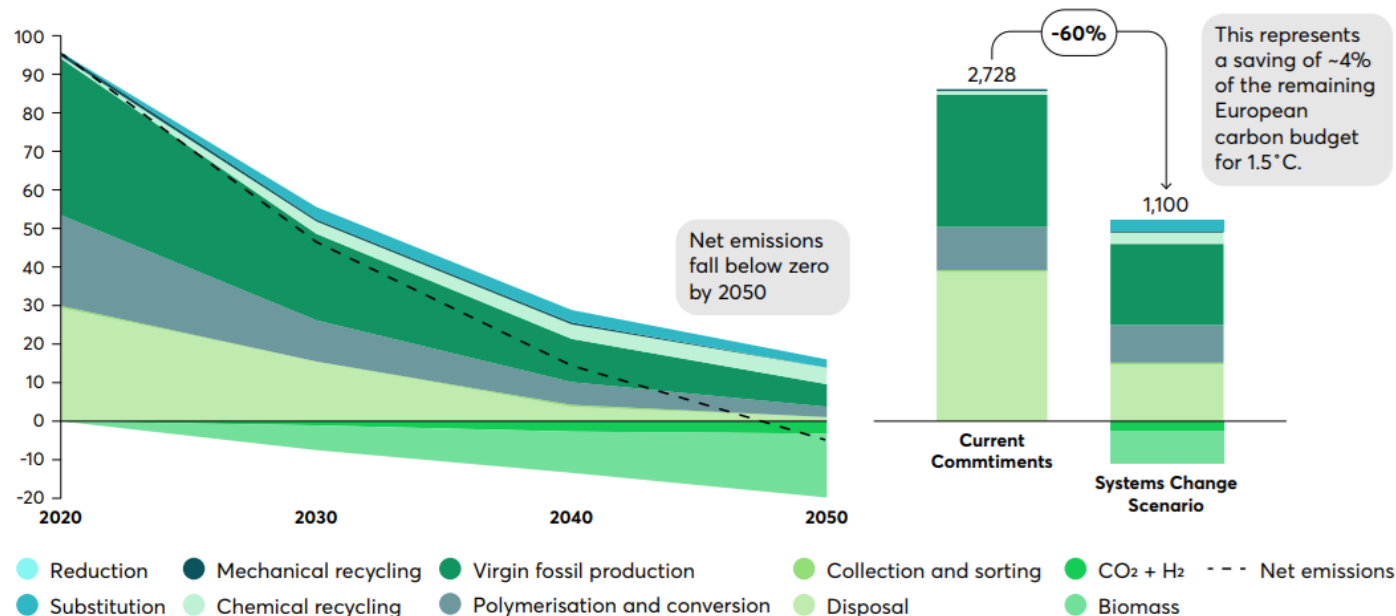
Note: Includes all levers from Retrofit Systems Change Scenario plus alternative feedstocks to displace virgin fossil, incineration + carbon capture and utilization and electric steam crackers.

SHIFTING TO ALTERNATIVE FEEDSTOCKS

Net Zero Systems Change Scenario (Mt)

Net Zero Scenario Annual GHG Emissions (Mt CO₂e/year)

Cumulative emissions 2020-2050 (Mt CO₂e)



Source: 2023 SistemiQ Report, "ReShaping Plastics" model

ACHIEVES NET ZERO GHG EMISSIONS BY 2050

OUR JOURNEY TO

SUSTAINABLE

INNOVATION

HAS BEEN PART OF
BRASKEM'S DNA

SINCE ITS BEGINNING

78%

Achievement
of **2020** macro
goals

74%

Of **Braskem's**
global electricity
is **renewable**

20%

Reduction
of greenhouse gas
emissions intensity through
our **I'm green** portfolio
BIO-BASED

WE ARE **COMMITTED**

TO BUILD A

CARBON
NEUTRAL

CIRCULAR
ECONOMY

CARBON NEUTRAL

BIO-BASED



BIO-ATTRIBUTED



RECYCLED



CIRCULAR ECONOMY

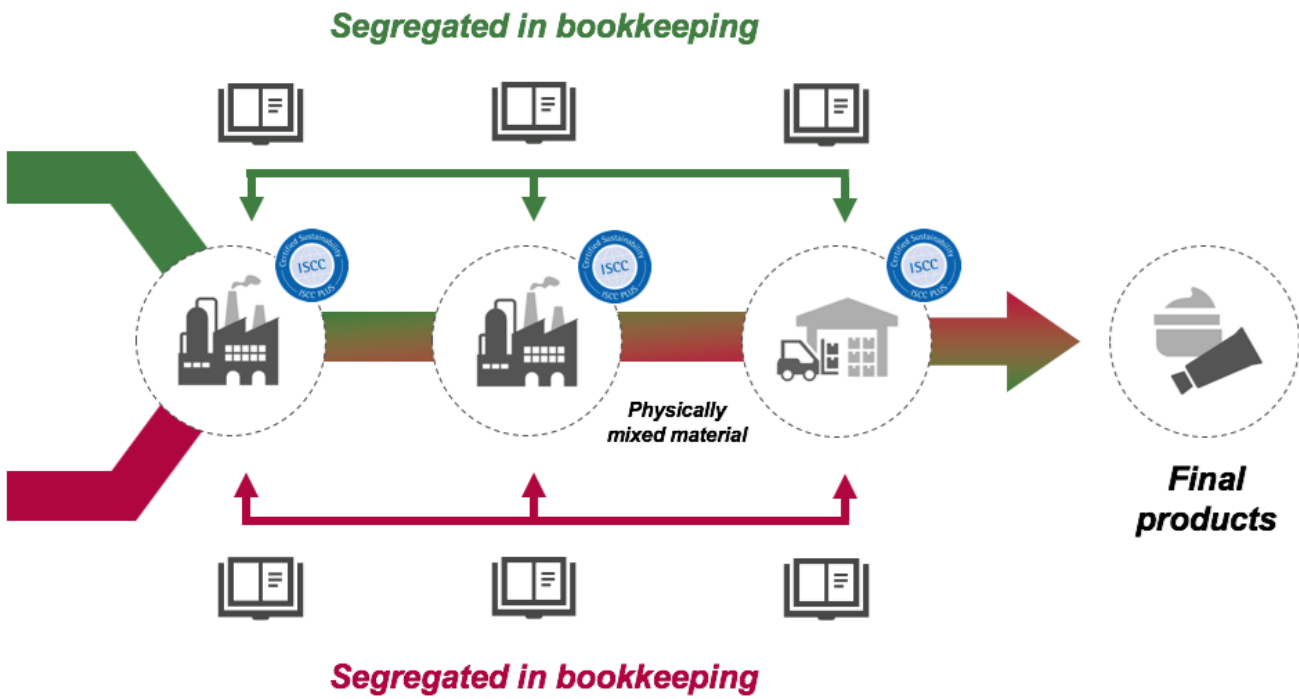
I'm 
green™
BIO-BASED

MASS BALANCE CERTIFIED PRODUCT

Circular or bio-based feedstocks



Fossil feedstocks



PREMIUM SEGREGATED BIO-BASED PRODUCT



BIO-BASED
FEEDSTOCK



DEDICATED
PLANT



BIO-BASED
POLYETHYLENE / EVA



RADIOCARBON DATING
Consistent accuracy
Delivered on time
Beta Analytic

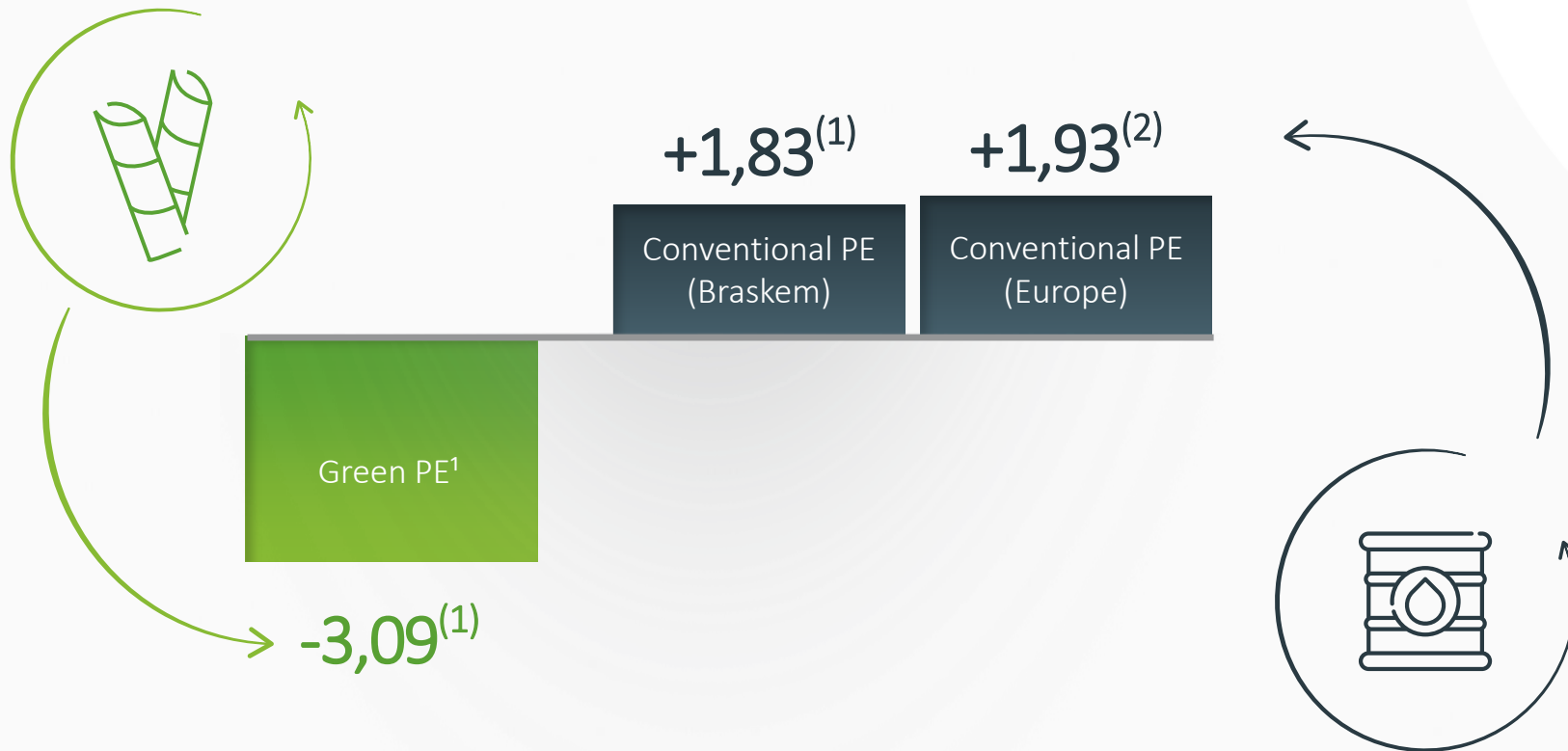


Fully
Recyclable



CARBON FOOTPRINT COMPARISON

Carbon footprint (t CO₂ eq./t polymer)



I'm 
green™
BIO-BASED



(1) LCA Study conducted by ACV Brasil/2017 (from cradle to Braskem factory gate)

(2) Plastics Europe



SUSTAINABLE PRACTICES



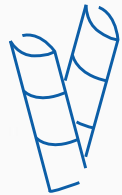
RESPONSIBLE ETHANOL SOURCING

EXCELLENCE

Audit Program + Strong Management



COMPLIANCE



Zerocane
burning



Biodiversity



Good
environmental
practices



Human and
labor rights



Product
life cycle analysis



RESPONSIBLE ETHANOL SOURCING

STAKEHOLDER SUPPORT

proforest

I'm 
green™
BIO-BASED



Solidaridad



raízen

BUNGE



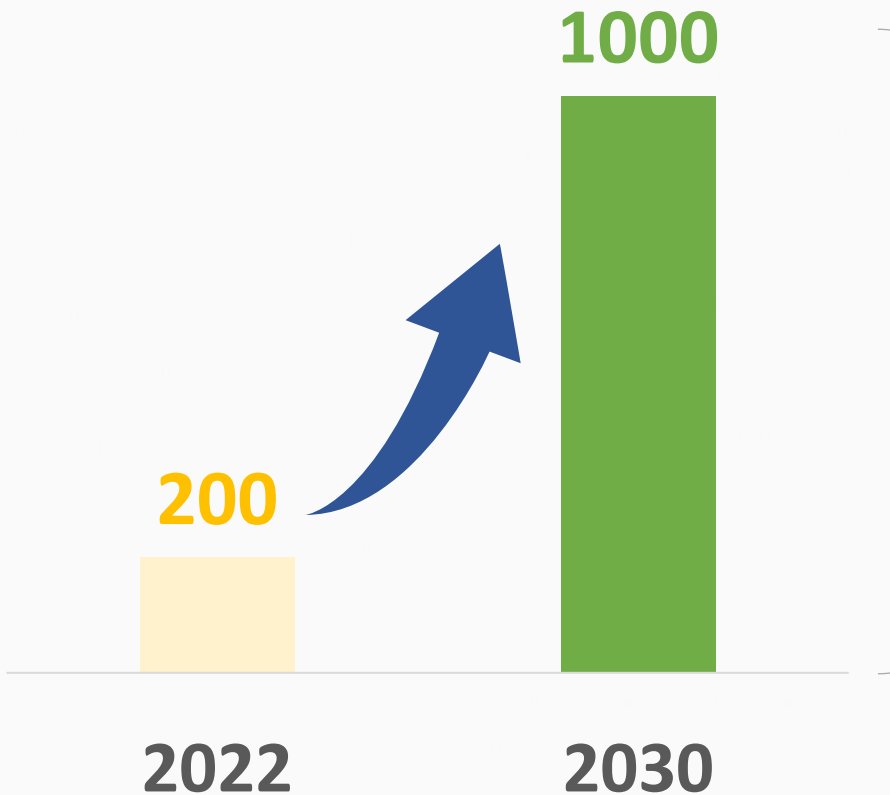
oBoticário

TOYOTA TSUSHO



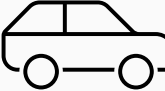


WILL REACH 1MMt by 2030

Green PE capacity (kt)



WHICH IS THE SAME AS

- Planting **200 MILLION**/year 
- 2,6 MILLION** Dutch households/year 
- 2 MILLION** cars/year 



Expansion is in progress...

January 17, 2023

Braskem Announces Project to Evaluate Production of Bio-Based Polypropylene

April 28, 2022

Braskem and Lummus partnership: the next chapter for Green Ethylene technology

September 9, 2021

Braskem and SCG Chemicals to study joint investment into bio-based ethylene production for bio-based polyethylene in Thailand

February 23, 2021

Braskem invests US\$61 million to increase biopolymer production



THANK YOU!

BE
PART OF THIS
STORY

.....
CONTACT US

We are a company interested in **listening, debating** and **seeking joint solutions** to build a more **sustainable** and **better** world for everyone.



MARCO JANSEN

MARCO.JANSEN@BRASKEM.COM



Biopolymers Business EMEA &

EU Advocacy & Sustainability Director

F O L L O W U S O N



Braskem 