

TOWARDS MORE SUSTAINABLE PERSONAL CARE AND COSMETICS PACKAGING

Seda Cantekin and Brenda Santegoeds Guest speaker Allan Hafkin Estée Lauder Company

SABIC WEBINAR September 2nd 2021

سابک وزداه

OUR PRESENTERS





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SENIOR INTERNATIONAL
ACCOUNT MANAGER, SABIC





SEDA CANTEKIN, PhD

MARKET DEVELOPMENT
SUSTAINABLE SOLUTIONS, SABIC





ALLAN HAFKIN

VP GLOBAL PACKAGE DEVELOPMENT

ESTĒE LAUDER COMPANIES



AGENDA

TOWARDS MORE SUSTAINABLE PERSONAL CARE AND COSMETICS PACKAGING



- Introduction
- TRUCIRCLE™ solutions
- Optimizing & maximizing recycled content by mechanical recycling
- Design for recyclability and reusability
- Interview with Allan Hafkin, VP Global Package Development at Estée Lauder Companies
- Conclusion
- Q & A

TOWARDS MORE SUSTAINABLE PERSONAL CARE AND COSMETICS PACKAGING

WHO WE ARE



SABIC AT A GLANCE





1976 Company

established



32,000

Employees around the world



3rd

Largest global chemical company*



212th

Largest public company in the world*



2nd

Chemical Brand Value**



4.017

US\$ bn

Estimated Brand Value**



≈ 150

New products each year



9,946

Global patent filings



68

World-class plants worldwide

5

79

US\$ bn

Total assets 17.8

US\$ mn

Net income US\$ bn

Annual revenue



FIRST LUXURY COSMETIC PACKAGING MADE OUT OF MIXED PLASTIC WASTE

SABIC, THE ESTÉE LAUDER COMPANIES AND ORIGINS ANNOUNCE **COLLABORATION TO** UNVEIL THE FIRST PREMIUM BRAND PACKAGING TUBE MADE WITH CERTIFIED CIRCULAR POLYOLEFINS



20/10/2020

"Exploring the uses of Post-Consumer Recycle – PCR – is an incredible resource to drive our sustainable packaging goals, and we are excited to bring a more advanced recycled PCR solution to market." states Sushil lyer, Vice President, Global Packaging, The Estée Lauder Companies.



LINKING UN SDG'S TO SABIC'S TOP SUSTAINABILITY PRIORITIES

Resource Efficiency

SABIC's ambitious goals are to reduce Material Loss intensity 50% and Water Intensity 25% by 2025 since 2010.











Innovation & Sust. Solutions

Sustainability is the guiding light for SABIC's product and process innovation - to support the development of effective solutions to some of the world's greatest challenges.







Climate Change & Energy

SABIC's ambitious goals are to reduce GHG and energy intensity 25% by 2025, from 2010 levels.













Circular Economy

Circular economy inspires SABIC to adapt our processes to the use of renewable and recycled feedstock, and to create durable, recyclable product design solutions for our customers.





Environment, Health, Safety

SABIC is committed to our core EHSS values, with a supportive culture and focus on continuous performance improvement.







Governance & Integrity

Integrity is a core value and helps to maintain stakeholder trust. SABIC's Code of Ethics provides guidance to meet stakeholder expectations. 8 ECCONNOCES







LINKING UN SDG'S TO SABIC'S TOP SUSTAINABILITY PRIORITIES

Resource Efficiency

SABIC's ambitious goals are to reduce Material Loss intensity 50% and Water Intensity 25% by 2025 since 2010.



TRUCIRCLE™ trademark has been introduced as an umbrella to collectively showcase SABIC's existing and new circular solutions and initiatives



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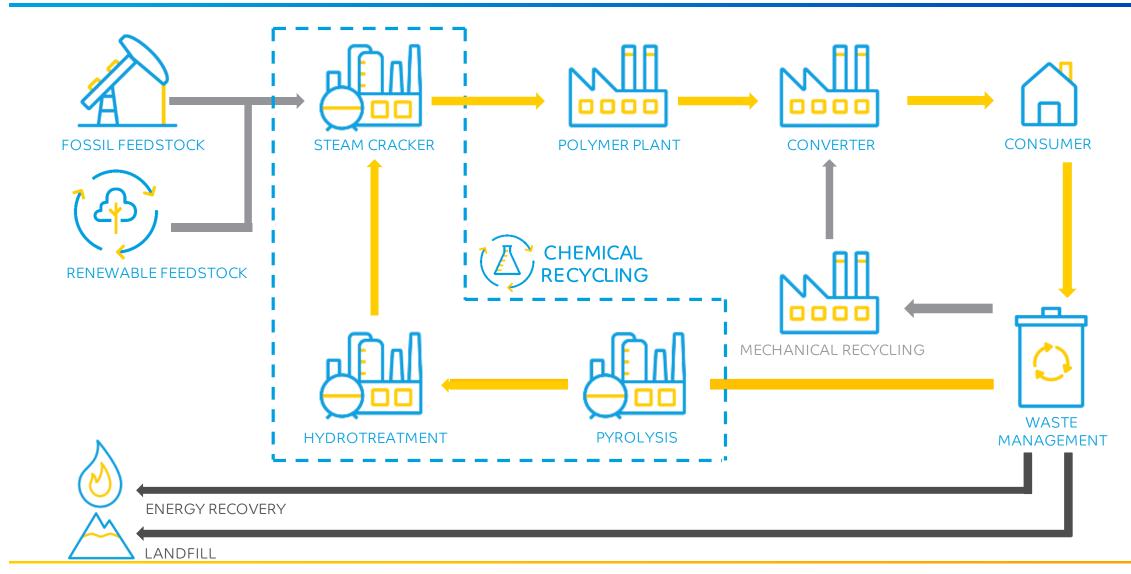


Governance & Integrity

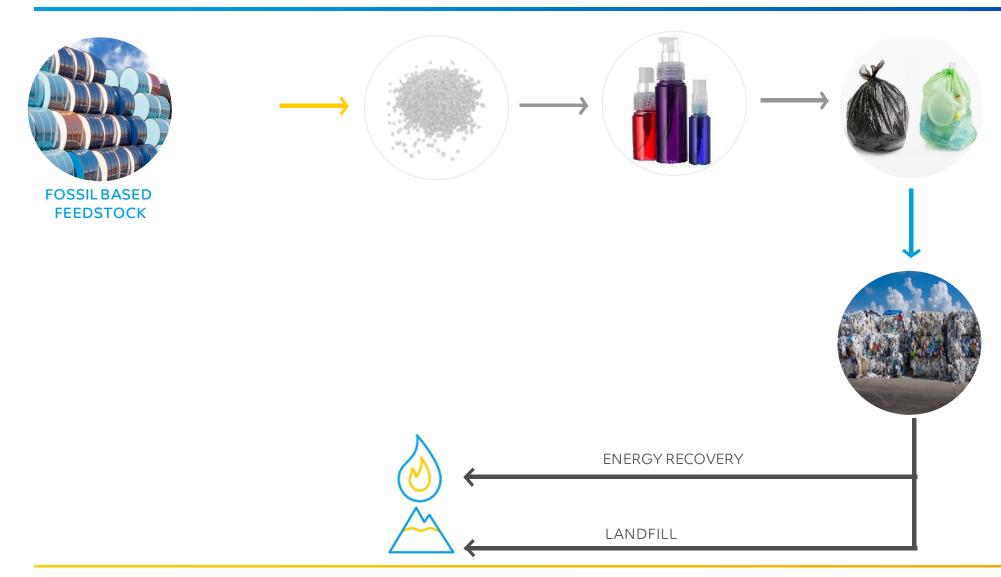
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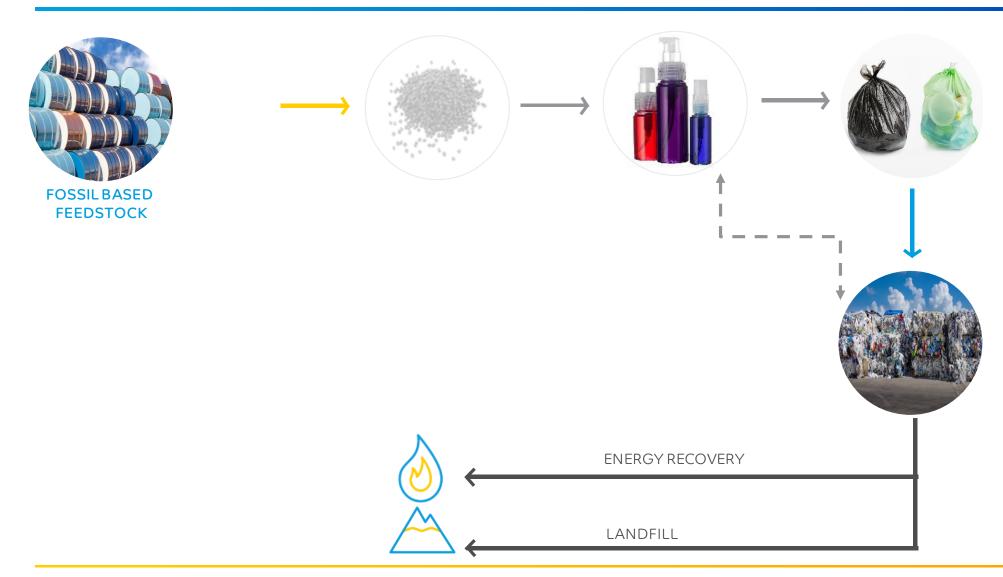
TOWARDS MORE SUSTAINABLE PERSONAL CARE AND COSMETICS PACKAGING

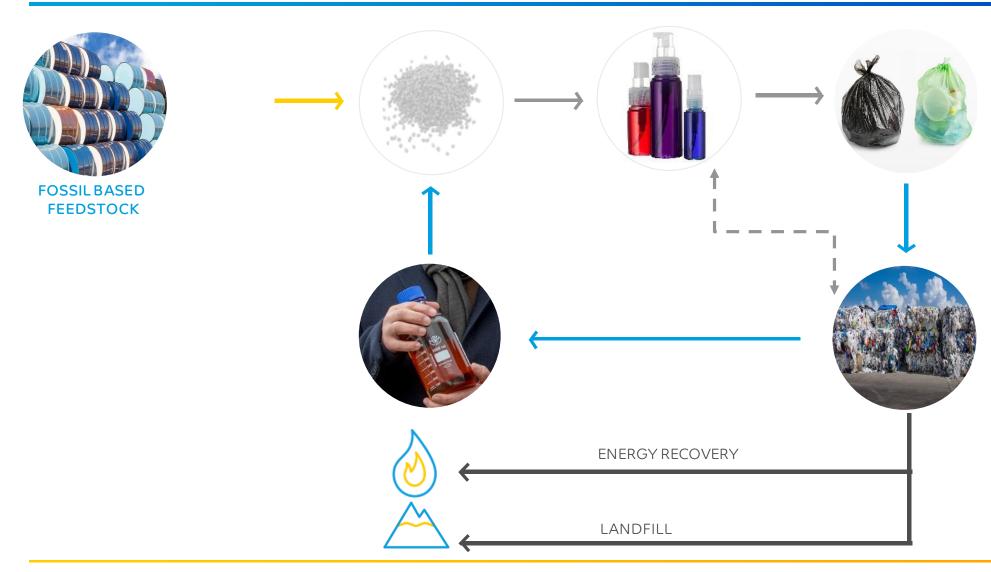
TRUCIRCLETM SOLUTIONS

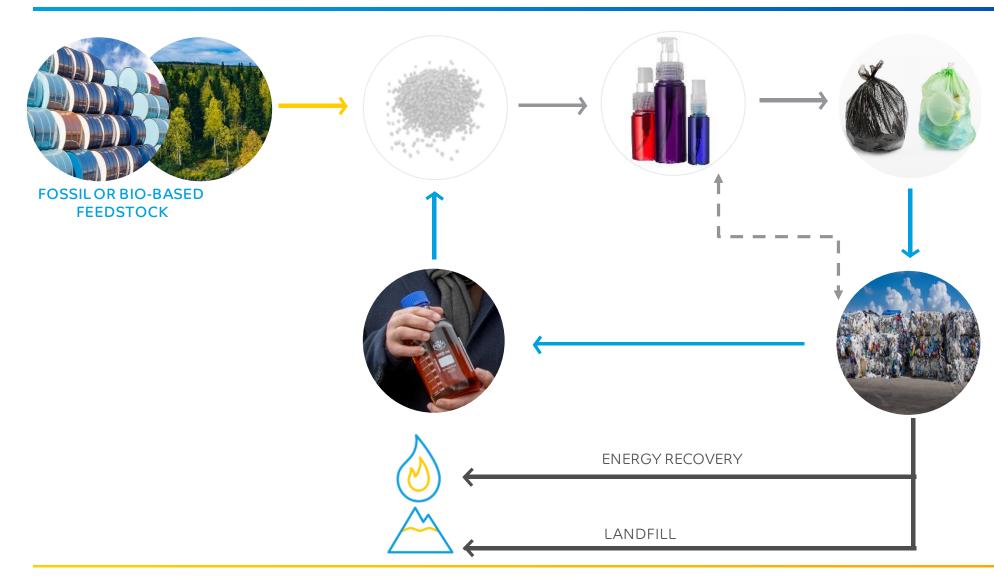


حالینی خوالمنو









سابک

IT IS POSSIBLE!





TRUCIRCLETM SOLUTIONS







SERVICES





CLOSING THE LOOP AND CREATING A CIRCULAR ECONOMY FOR PLASTICS



THINK OF ...

YOUR PRODUCTS
MADE OUT OF
USED PLASTICS...
OR BIO-BASED

NO COMPROMISE ON SAFETY AND QUALITY

MIXED PLASTIC WASTE



















TOWARDS MORE SUSTAINABLE PERSONAL CARE AND COSMETICS PACKAGING

CERTIFIED RENEWABLES



FIRST EXAMPLE OF BIO-BASED MATERIALS IN COSMETICS PACKAGING

BEIERSDORF SELECTS SABIC CERTIFIED RENEWABLE PP FOR NEW NIVEA PACKAGING

29/04/2021



"We are excited to implement this important change in the packaging of our NIVEA brand products and to be the first in the skincare mass market to use polypropylene made from second-generation bio-based feedstock on a global basis," says Michael Becker, Head of Global Packaging Development at Beiersdorf. "Together with SABIC, we have taken a major step forward in transforming conventional fossil-based packaging in the cosmetics and skin care segment towards fully sustainable material alternatives."



BIO-BASED MATERIALS

SABIC CERTIFIED RENEWABLE POLYMERS BASED ON 2ND GENERATION FEEDSTOCK

- No competition with food chain
- Helps mitigate climate change
- Lower carbon footprint compared to fossil alternative
- A bio-based economy
- Replacing fossil based feedstock (e.g. Naphtha)



Renewable 2nd generation feedstock





VALUE PROPOSITIONS OF CERTIFIED RENEWABLE POLYMERS

DROP-INSOLUTION

- Time-to-market < 6 months
- Shortened qualification round
- Easy upscaling
- No compromise on safety and quality

POSITIVE BRAND EXPERIENCE

- Improved consumer satisfaction
- · Brand attractiveness and loyalty
- Create positive social impact
- Attracting new or regain customers

EQUAL PACKAGING PROPERTIES LOWER ENVIRONMENTAL CERTIFIED RENEWABLE No change in package quality and **FOOTPRINT** packaging conditions **POLYMERS** Reduced CO2 impact vs alternatives · No investment in line modifications Contributing to our planet needs OST REDUCTIO ALUE INCREAS required **RECYCLABLE PACKAGE** • Can be recycled and used again RISKREDUCTION

RENEWABLE

 Use of bio-based products that are not in conflict with the food chain

SAFETY O

- Meeting all Food Contact safety regulations
- No compromise on quality

REDUCED USE OF NATURAL RESOURCES

Less oil use; preventing fossil feedstock depletion

TOWARDS MORE SUSTAINABLE PERSONAL CARE AND COSMETICS PACKAGING

MECHANICALLY RECYCLED PRODUCTS

MAIN CHALLENGES FOR MECHANICALLY RECYCLED PRODUCTS



- Maximizing the PCR content
- Feedstock availability
- Consistent raw material quality
- Odor & color consistency
- Process-ability
- Mechanical properties & performance of end product
- Safety, regulatory





Need for innovative technologies to develop sustainability solutions

* PCR = Post Consumer Regrind 23



MECHANICALLY RECYCLED COMPOUNDS AND BOOSTERS

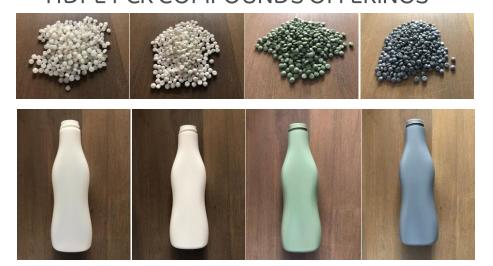
PCR COMPOUNDS

BOOSTER RESINS

- Building and extending our portfolio of PE and PP PCR sources
- PCR content varying up to 50%
- Suitable for bottles, thin-wall packaging, caps and closures
- Different color options
- Hybrid solutions for ABS replacement with rPET option
- Samples available, possibility to scale up upon discussion

Booster solutions allows blending in PCR up to 90% during the converting process, while maintaining desired process-ability, and end product performance.

HDPE PCR COMPOUNDS OFFERINGS



PP PCR COMPOUNDS OFFERINGS



ABS REPLACEMENT





VALUE PROPOSITIONS OF MECHANICALLY RECYCLED PRODUCTS & BOOSTERS

COMPOUNDED SOLUTION INCLUDES MIN 30% PCR Eliminates one compounding step • Exemption from the plastic tax May help with stable process and quality • Brand image, social responsibility Risk Can minimize batch-to-batch variations Meeting sustainability targets Reduction Cost Society Reduction Value Desired mechanical and functional Lowering CO2 footprint • Can be combined with certified circular or renewables properties • Can be combined with foam technology High ESCR and process-ability Revenue Individual Increase **BOOSTER** • Freedom to choose PCR type · May work with broad quality range of PCRs • Enables maximizing PCR content

TOWARDS MORE SUSTAINABLE PERSONAL CARE AND COSMETICS PACKAGING

DESIGN FOR RECYCLE AND RE-USE



SABIC'S SOLUTIONS FOR RECYCLABLE AND RE-USABLE PRODUCTS

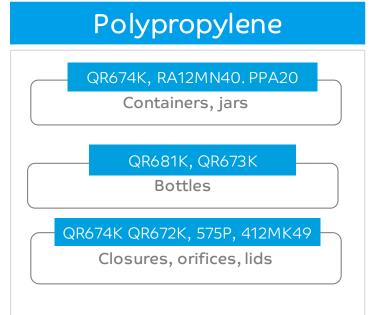
- Broad PE & PP & ETP portfolio suitable for mono-material and re-use applications in
 - Tubes, bottles, jars, lids, spatulas, orifices, labels and closures

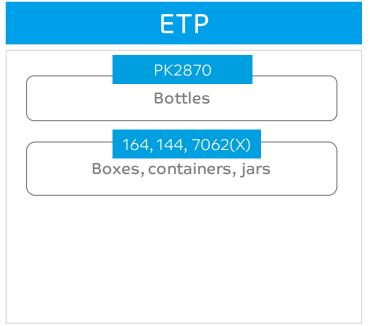






Polyethylene M1053, CC4530 Dispensers, closures B5823, B5822 Small bottles F4520, 726NJ Tubes







SABIC® PP SOLUTION FOR AESTHETIC PARTS

Key Features of SABIC's PP PPA20 high gloss impact copolymer



SUSTAINABILITY - SOCIETAL PERCEPTION

STYRENE-FREE SOLUTION – LIGHTWEIGHT – CIRCULAR & RECYCLABLE



APPEARANCE

HIGH GLOSS, HIGH SCRATCH RESISTANCE, LOW STRESS WHITENING



Ch Ch

LIGHTWEIGHT

LOWER DENSITY COMPARED TO ABS AND PP COMPOUNDS – OFFERING NEW DESIGN OPPORTUNITIES



MECHANICAL PROPERTIES

CAN OFFER BALANCED IMPACT-STIFFNESS AT ROOM TEMPERATURE



TRUCIRCLETM SOLUTIONS







SERVICES





CLOSING THE LOOP AND CREATING A CIRCULAR ECONOMY FOR PLASTICS

CHEMISTRY THAT MATTERS™

COLLABORATION. IT'S MAKING THE CIRCULAR ECONOMY GO ROUND.

As we adapt to a new normal, we're helping support more sustainable economies.

That's why SABIC introduced the TRUCIRCLE™ initiative to work with our collaboration partners to rethink recycling. SABIC's collaborations are making it possible to create materials of high enough quality for food packaging by breaking complex, low quality waste plastics down to their original state. We can use, reuse and repurpose more of our resources without using new ones. It's innovative technology that's making the circular economy reality with Chemistry that Matters™.

Meet one of the world's leading chemical companies at SABIC.com

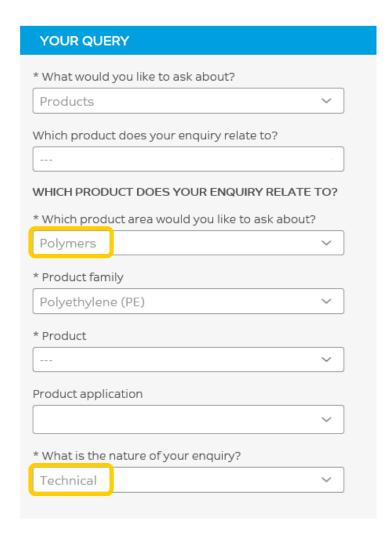


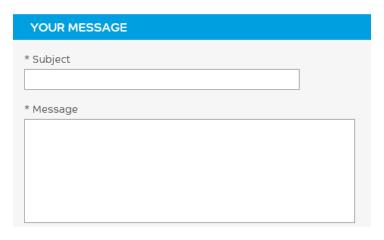


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INTERVIEW WITH OUR GUEST SPEAKER





ALLAN HAFKIN

VP GLOBAL PACKAGE DEVELOPMENT

ESTĒE LAUDER COMPANIES



Q & A SESSION



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