

CHEMISTRY THAT MATTERS™



CONTRIBUTING TO NET-ZERO CARBON GOALS

SPECIALTIES OFFERINGS ADDRESSING THE CLIMATE CHALLENGE

UL PROSPECTOR WEBINAR
19 MAY 2021



SABIC IS ONE OF THE WORLD'S MOST DIVERSIFIED CHEMICALS BUSINESS



WHO WE ARE

AARON LITOFF



INNOVATIVE PORTFOLIO OF SOLUTIONS ALIGNED WITH TRANSFORMATIONAL TRENDS



MOBILITY

Material and design expertise to help OEMs with lightweight solutions, e-mobility, and under hood environments with needs such as:

- Fuel efficient EV range
- Thermal management
- Sensors and shielding
- Energy storage

ELECTRONICS

Materials to enable new designs to support technical and more sustainable consumer products, such as:

- Smart phones
- Laptop and tablets
- Augmented reality
- Smart appliances

INFRASTRUCTURE

Materials to benefit customers in developing solutions that can help support the environment and address certain challenging future demands, such as:

- 5G Infrastructure, fiber optics
- Building components
- Renewable Energy
- Water management
- Circuit boards

INDUSTRIAL

Materials for the next generation of devices and systems:

- IoT (Internet of Things)
- Connected home
- Smart manufacturing
- Robotics

HEALTHCARE

A healthcare dedicated portfolio of materials that can be used in:

- Drug delivery
- Surgical devices
- Patient testing
- Wearables
- Dental instruments & equipment

OUR PLATFORM

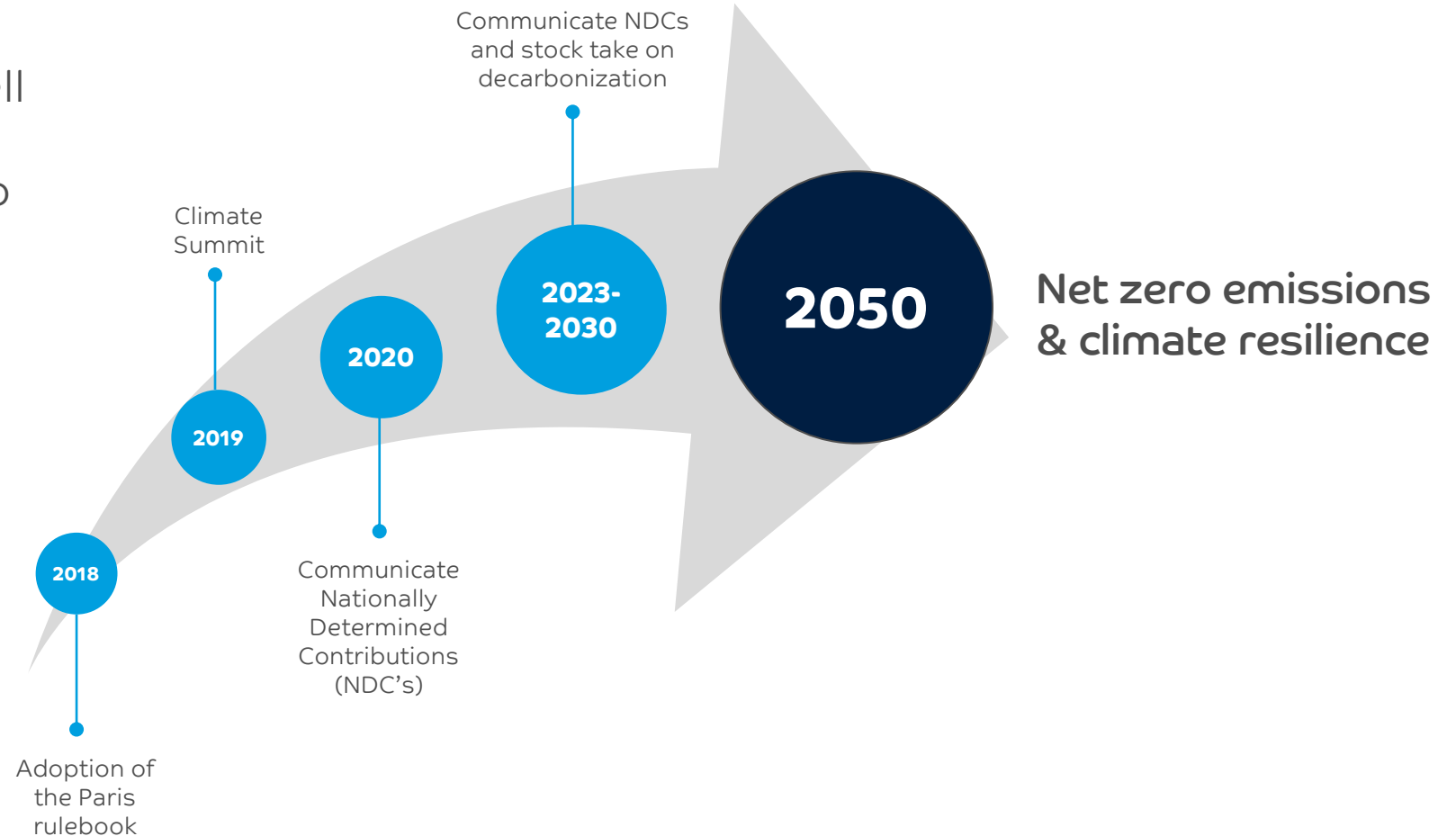
SPECIALTIES & CLIMATE CHALLENGE

2

THE PARIS CLIMATE AGREEMENT

GOAL

To limit global warming to well below 2, preferably to 1.5 degrees Celsius, compared to pre-industrial levels.



SABIC'S SPECIALTIES BUSINESS OUR CONTRIBUTIONS TO THE UNITED NATIONS SDG'S

13 CLIMATE ACTION

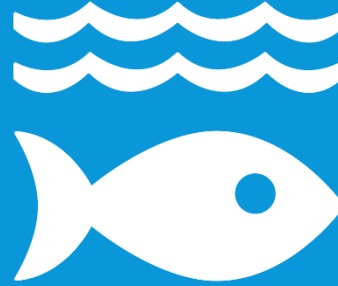


NET-ZERO CARBON

Specialty material performance with lower carbon footprint

Application development for longer life and enhanced recyclability

14 LIFE BELOW WATER



10 BY 10

Our market ambition is to divert 10 Billion PET single-use bottles in 10 years

17 PARTNERSHIPS FOR THE GOALS



INNOVATING THROUGH THE VALUE CHAIN

Alliances across the value chain

OUR UNIQUE CHEMISTRY

SPECIALTIES OFFERINGS FOR CARBON NEUTRALITY TARGETS

#13 CLIMATE ACTION

3

OVER 30 YEARS OF LOWER CARBON SOLUTIONS

CONSERVING RESOURCES

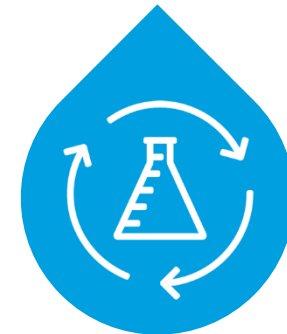


1990

Post industrial recycling
Conserving valuable resources

Open-loop: chemical upcycling
Copolymers with bio renewable content
Closed-loop recycling programs
Eco offerings: non-brominated,
non-chlorinated flame retardants & additives
Light weight, downgauging offerings

2000 - 2010



CUSTOMER ENGAGEMENT

VALUE CHAIN PARTNERSHIPS



2020 - FUTURE

New certified renewable offerings
Closed-loop initiatives
for the circular economy
Design for recyclability
Responsible sourcing

SPECIALTY MATERIALS WITH LESS CARBON FOOTPRINT

13 CLIMATE ACTION



NET-ZERO CARBON

Unique offerings,
lower carbon footprint¹

MECHANICAL RECYCLING

COMPOUNDED RESINS
LNP™ COMPOUNDS & NORYL™ RESINS

UP TO **60%** CO₂ REDUCTION

- PCR content up to 80%
- Closed loop opportunities
- Hybrid solution;
mix with virgin material

CHEMICAL RECYCLING

COMPOUNDS WITH VIRGIN FEEDSTOCK-EQUIVALENT PROPERTIES
LNP™ ELCRIN™ iQ PORTFOLIO

UP TO **41%²** CO₂ REDUCTION

- Green content up to 100%
- Patented depolymerization process

RENEWABLES

BIO-BASED COMPOUNDS & RESINS
ISCC+ CERTIFIED RENEWABLE LNP™ PRODUCTS

UP TO **61%** CO₂ REDUCTION

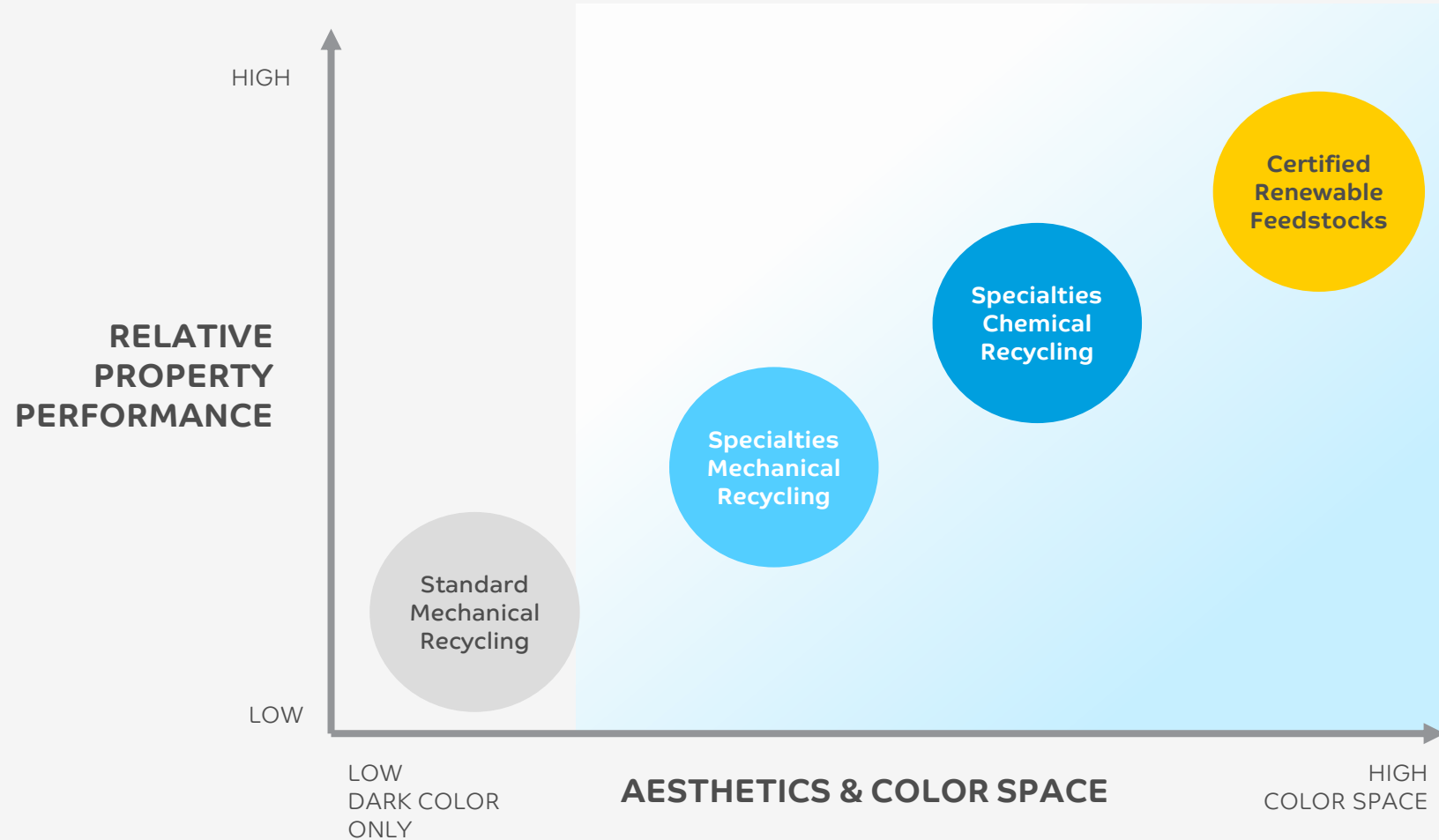
COMING UP ISCC+ CERTIFIED RENEWABLE ULTEM™ RESINS

- Feedstock not competitive with the human food chain
- Mass balance mechanism
- Virgin equivalent properties

¹Lower carbon footprint in comparison to same materials containing 100% crude oil feedstock.

²Based on preliminary data from ELCRIN iQ PBT 3rd generation development

REDUCE CARBON FOOTPRINT WITHOUT COMPROMISING APPLICATION PERFORMANCE



MECHANICAL RECYCLING

PROCESS | POTENTIAL BENEFITS | OFFERINGS

EMILY HE

OUR MECHANICAL RECYCLING PROCESS EXPLAINED



PCR

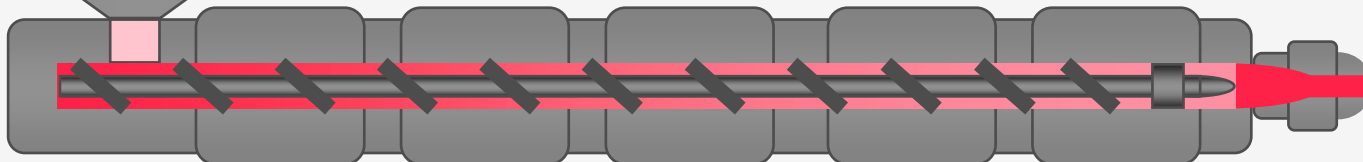
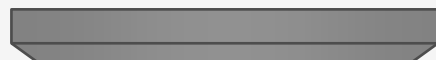


Specialties resins and copolymers

- Collection
- Sorting
- Washing
- Drying
- Crushing
- Metal Removal
- Extrusion
- Inspection



Third-party certification of PCR content conducted by [SCS Global Services](#).



PCR COMPOUNDS

MECHANICAL RECYCLING PORTFOLIO – POTENTIAL BENEFITS



Up to 80% post-consumer recycled content



Non-brominated & non-chlorinated flame retardant systems



EPEAT¹ and RoHS² compliant



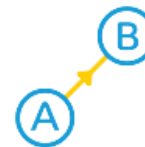
Up to two extra EPEAT system points can be achieved



Carbon footprint & waste reduction



Properties performance close to virgin grades



Drop-in solution to existing tools

1. Electronic Product Environmental Assessment Tool (EPEAT)

2. RoHS Directives 2011/65/EU, 2015/863/EU, 2017/2102/EU and amendments

LNP™ COMPOUNDS WITH PCR PC – AVAILABLE PORTFOLIO



STRUCTURAL

THERMOCOMP™ compounds
THERMOTUF™ compounds



30-50%
PCR



Non-halogenated
Flame Retardant



High stiffness with 10-
50% Glass Fiber



V-0
@ 1-0.6mm



LOW TEMPERATURE IMPACT

LNP EXL compounds



20-80%
PCR



Non-halogenated
Flame Retardant



Low temperature Impact
(DBT down to -60C)



V-0
@ 1.5mm



IMPROVED FLOW AND FR

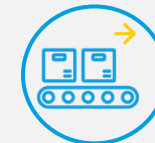
LNP PC/ABS CX compounds



30-50%
PCR



Non-halogenated
Flame Retardant



Excellent processability
With good impact

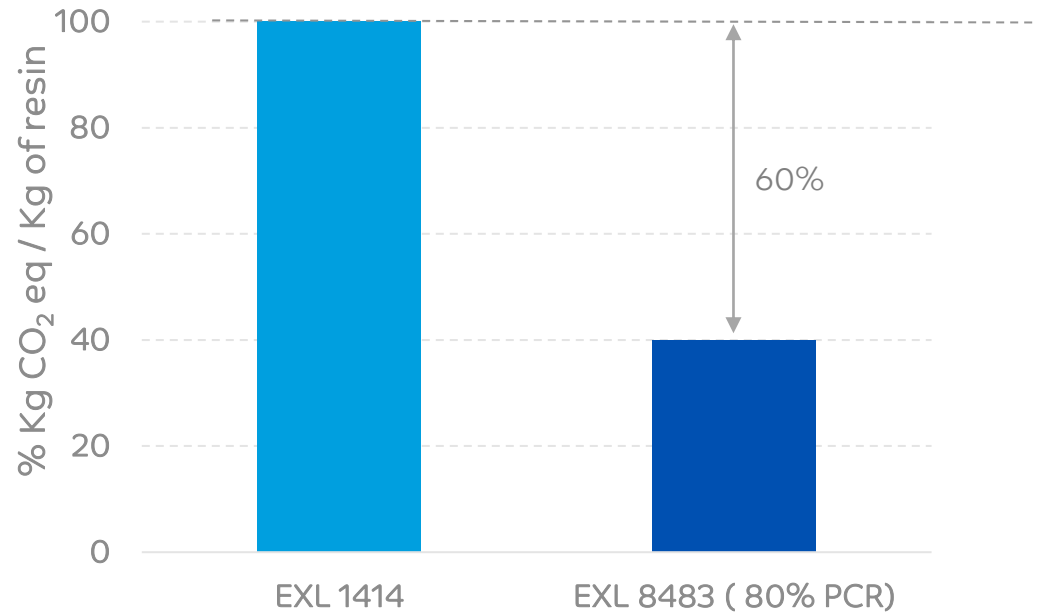


V-0
@ 1.5-0.6mm


Portfolio of 20+ grades available containing up to 80% PCR PC resin

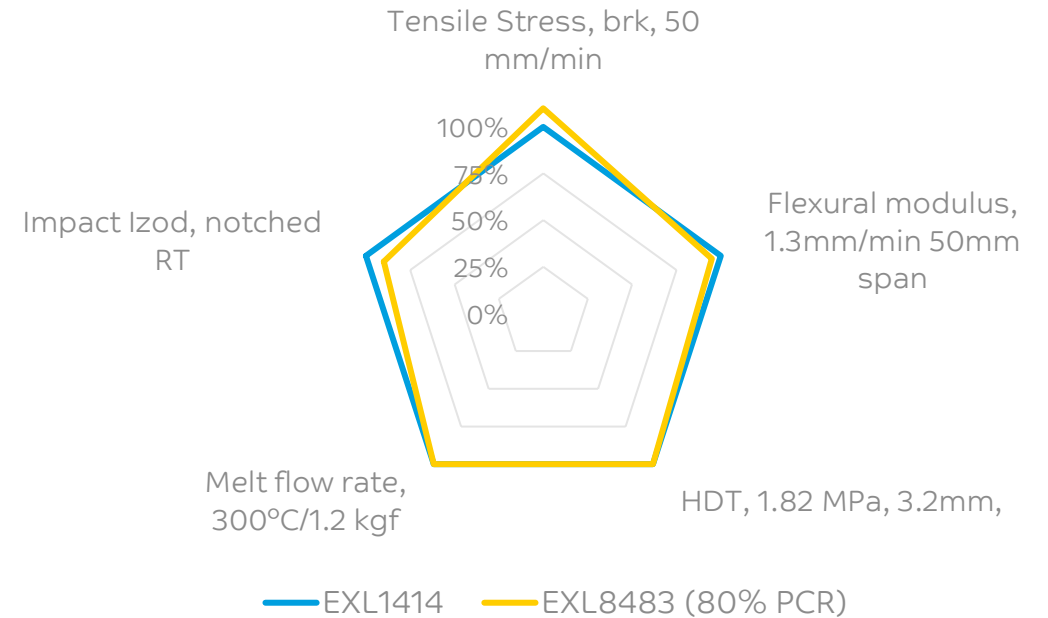
DROP IN SOLUTION WITH REDUCED CO₂ FOOTPRINT EXL1414 (VIRGIN GRADE) VS. EXL8483 (80% PCR)

IPCC CO₂ equivalent analysis



Compared with standard EXL1414 resin:

 **60% CO₂ reduction***



Drop in solution for standard EXL resins

Properties performance close to virgin EXL grades such as EXL1414

* Based on internal life cycle assessment

MECHANICAL RECYCLING | CASE EXAMPLES



KEY PRODUCT FEATURES | APPLICATION REQUIREMENTS

- Impact resistance to meet stringent drop and structural tests
- UL94 HB or V0 rated grades
- PCR content up to 80% - third party certification
- Color match capable
- Non halogenated flame retardant grades compliant with UL94, REACH¹, RoHS



POTENTIAL CUSTOMER BENEFITS

Mechanical performance **as close to virgin product** performance

Drop in solution with no tooling changes

Brand styling with appealing **custom colors**



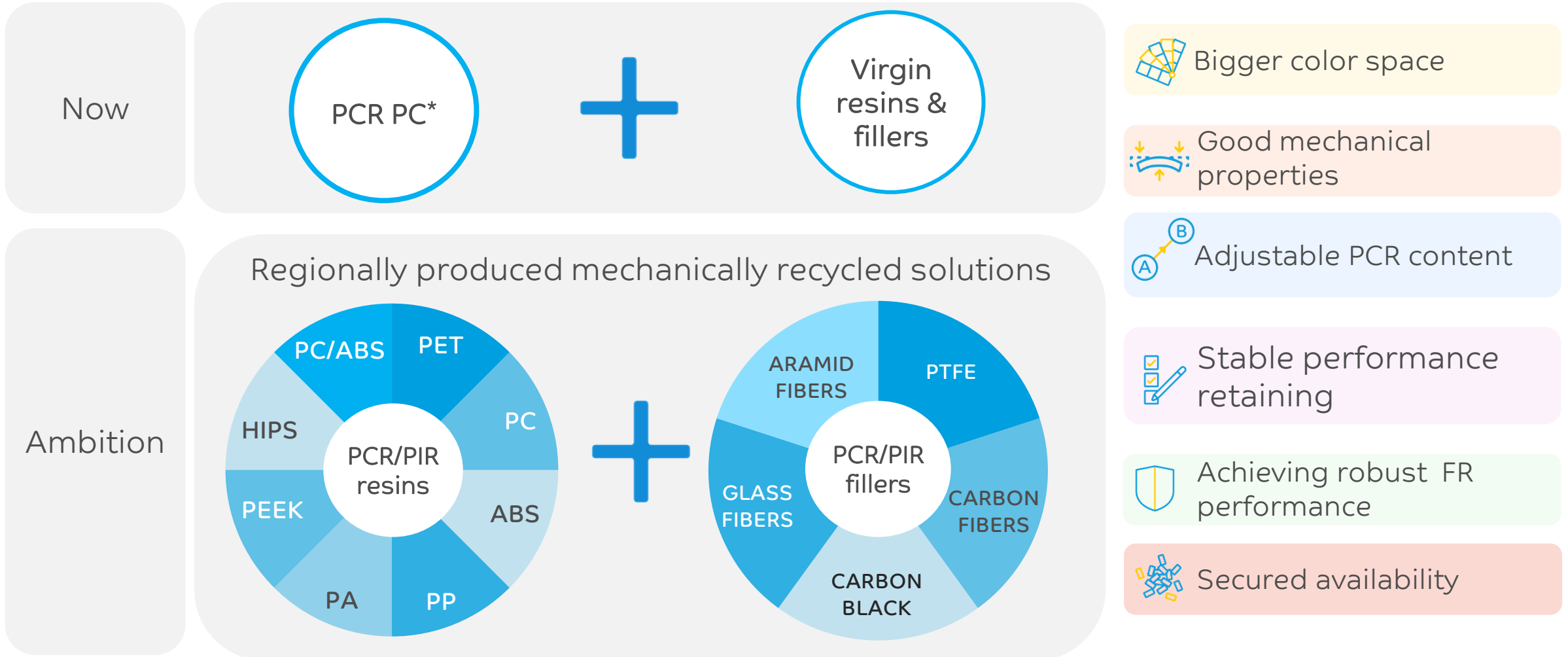
CONTRIBUTION TO #13 CLIMATE ACTION

Mechanical recycling products can support customer sustainability goals by **diverting plastics waste from landfills** back into durable consumer electronics goods

- Up to 60% lower carbon footprint
- Up to 69% lower energy footprint
- Up to 2 EPEAT points

POST-CONSUMER RECYCLED SOLUTIONS UNDER ASSESSMENT

LNP™ is studying the potential expansion of its mechanical recycled portfolio investigating:



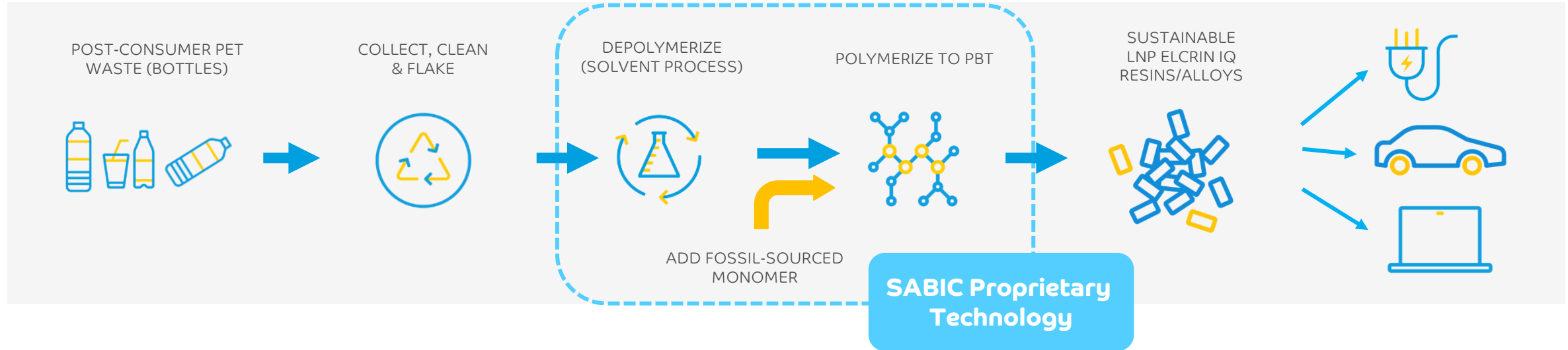
CHEMICAL RECYCLING

PROCESS | POTENTIAL BENEFITS | OFFERINGS

EMILY HE

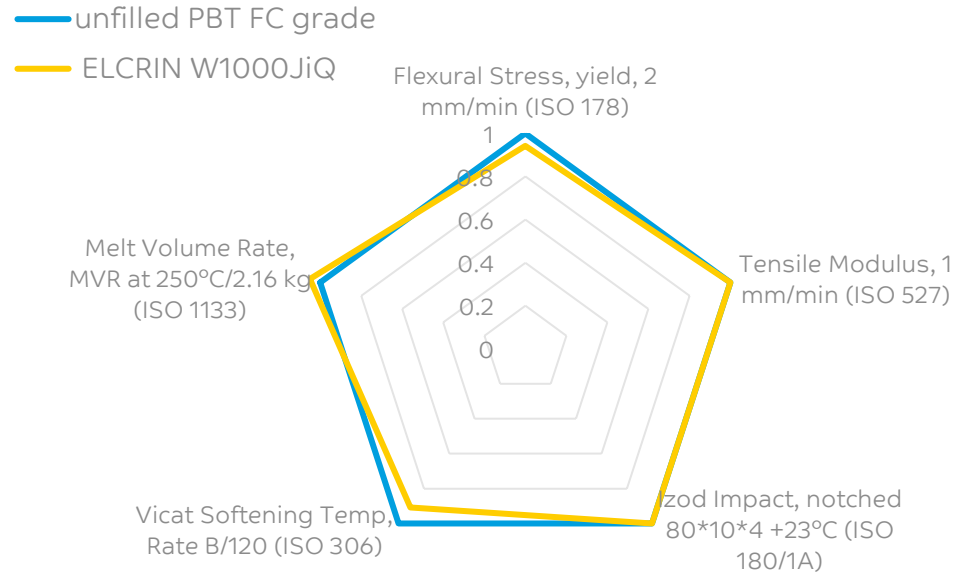
LNP™ ELCRIN IQ: PATENTED CHEMICAL RECYCLING PROCESS

UPCYCLING OF POST CONSUMER WASTED PET INTO LNP™ ELCRIN™ IQ PRODUCTS



- LNP ELCRIN iQ compounded resins contains up to **60% recycled content by weight**
- **Centralized LNP ELCRIN iQ chemical process** can handle PCR Source of PET, including ocean-bound and/or land source
- **Social Responsibility Certification[^]** across the entire value chain

PUSHING THE BOUNDARIES FOR NET-ZERO CARBON TARGETS



OVER 100 MILLION PET BOTTLES ARE UPCYCLED INTO SABIC'S LNPT™ ELCRIN™ IQ PRODUCTS CONTRIBUTING TO NET ZERO CARBON GOALS

16/03/2021



Potential benefits:

- ✓ Provide [drop-in solutions](#) for conventional PBT applications and virgin-like properties
- ✓ Can offer [food-contact](#) potential with [minimum 56% PCR](#) content
- ✓ Have smaller "[cradle-to-gate](#)" environmental footprint, as measured by Cumulative Energy Demand (CED) and Global Warming Potential (GWP)
- ✓ Reduce the energy and carbon footprint of the W1000JiQ up to [41% and 27%, respectively*](#)




100MM+ single-use PET bottles already diverted ... ambition to achieve 10BN by 2030

UPCYCLING CHEMICAL RECYCLING - BENEFITS

SABIC's Specialties business circular ambition is driven by the growing industry demand for net-zero carbon solutions and fueled by our mission to compound the answer.

CHEMICAL RECYCLING



LNPT™ ELCRIN™ iQ resin

- Drop in solution
- Virgin equivalent property
- May comply with certain regional food contact regulations
- PCR content certified by SCS Global
- Social Responsibility Certificate

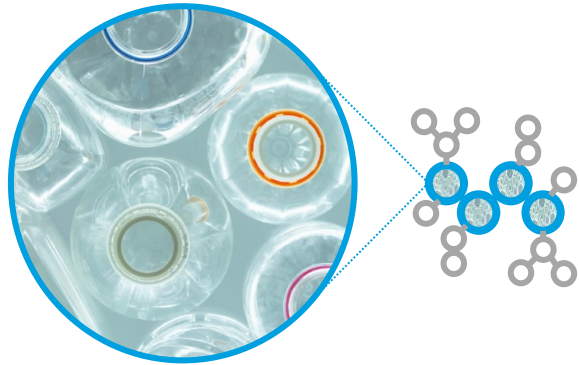
COMPARED WITH CONVENTIONAL PBT COMPOUNDS

-  Better carbon/energy footprint
-  Improved social impact and corporate image
-  Comparable properties
-  Drop-in solution (no need to change tooling and design)
-  REACH, RoHS and EPEAT compliant

COMPARED WITH MECHANICAL RECYCLING

-  Potential use in certain healthcare and food-contact applications
-  Better quality consistency
-  Better color space (all colors)
-  Virgin-quality achievable

CHEMICAL RECYCLING | CASE EXAMPLES



KEY PRODUCT FEATURES | APPLICATION REQUIREMENTS

- Compliance with REACH¹, RoHS², EPEAT
- Healthcare and Food-contact capable
- PCR content certified
- Verified responsible source certificate
- Global Recycle Standard certification achieved (for fiber and textile applications)

POTENTIAL CUSTOMER BENEFITS

Mechanical performance as close to virgin PBT performance

Drop in solution with no tooling changes

Virgin-like color space

CONTRIBUTION TO #13 CLIMATE ACTION

Compared to virgin resin, LNP ELCRIN iQ product has a smaller “cradle-to-gate” environmental footprint.

By displacing the virgin raw materials, LNP ELCRIN iQ resin has been shown through peer-reviewed life cycle assessment to reduce the carbon footprint of the material by up to 41%*.

LNPT™ COMPOUNDS WITH ELCRIN™ IQ PBT – AVAILABLE PORTFOLIO

ELCRIN™ iQ PBT Compounds
Unfilled
Glass Fiber Reinforced



25-56%
PCR Content



Food Contact, Water
Management
compliance (in certain
regions)



Lubricated for
Wear/Friction



Thin Wall Flame
Retardant

ELCRIN™ iQ PBT/PC Compounds
Unfilled
Glass Fiber/Mineral Reinforced



12-25%
PCR Content



Good Impact
High Ductility



Surface Aesthetics
Dimensional Stability

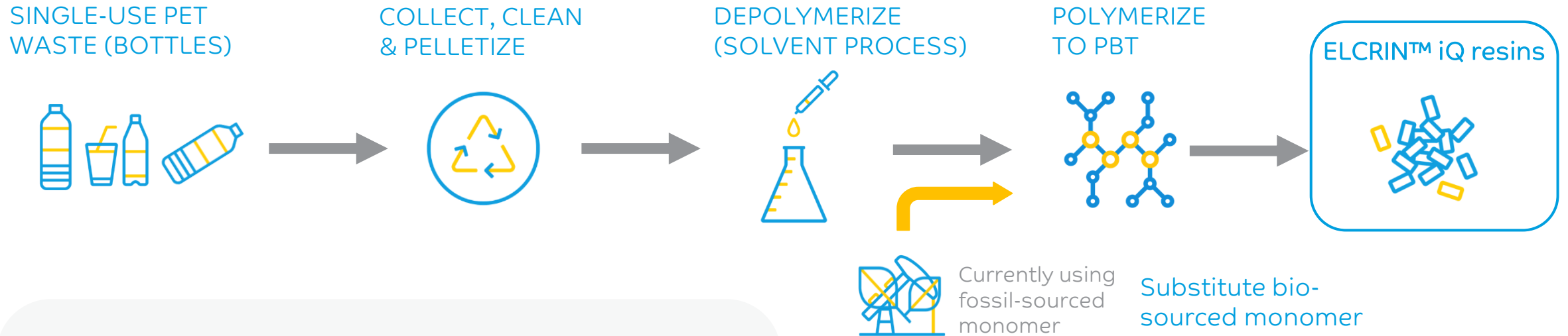


Thin Wall Flame
Retardant


Portfolio of 15 grades available containing 12-56% post-consumer recycle content from ELCRIN iQ PBT resins


EVOLVING IQ TECHNOLOGY AIMING TO ACHIEVE 100% SUSTAINABLE CONTENT

SABIC LNP aims to deliver improvements in material performance, scale and sustainability




2nd Generation

 Improve color ability – all colors including bright white;

 Broad r-PET source - beyond colorless bottle flake

3rd Generation

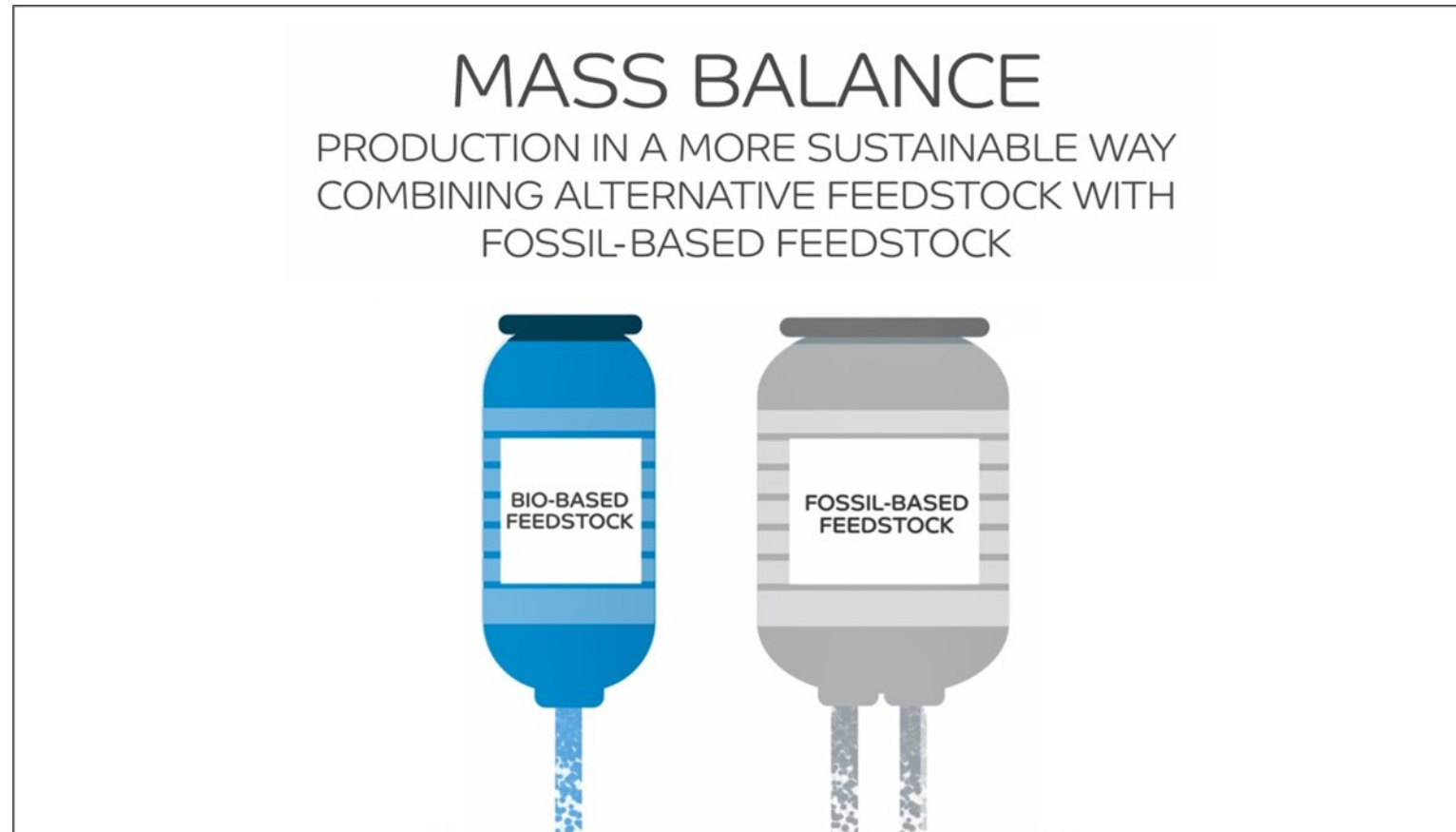
 Transition to a fully circular product using a bio-sourced monomer: **100% sustainable content**

CERTIFIED RENEWABLES

PROCESS | BENEFITS | OFFERINGS

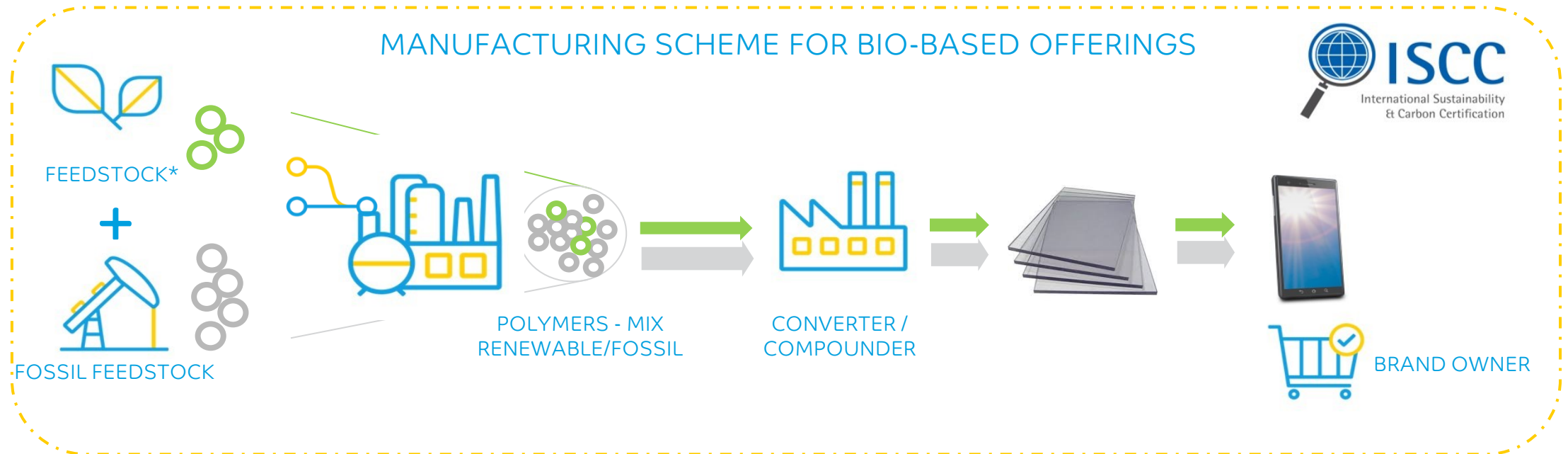
WILLEM HAMERSMA

ACCEPTANCE OF THE MASS BALANCE CONCEPT IS A VITAL STEP



➤ Mass balance is a system where there is a certified balance between the amount of ‘input material’ into a process and the amount of ‘output material’ from the process

RENEWABLE OPTIONS - PROCESS



- Utilizes renewable feedstock derived from waste or residue (e.g., crude tall oil from the wood industry)
- Reduction in carbon footprint (up to 61% GWP) can be achieved by use of such feedstock

➤ Bio-based offsets to LNP™ copolymer resins, LNP™ PC compounds available... and ULTEM™ and NORYL™ resins under development

CERTIFIED RENEWABLES | CASE EXAMPLES



KEY PRODUCT FEATURES | APPLICATION REQUIREMENTS

- Bio content certified by ISCC+ by Mass Balance Compliance with REACH¹, RoHS²
- Impact resistance that can meet certain stringent drop and structural tests
- UL94 HB or V0 rating
- Dimensional stability
- Color match capable



POTENTIAL CUSTOMER BENEFITS

Same mechanical performance as of a virgin material

Drop in solution with no tooling changes - **Requalification not required**

Equivalent color space



CONTRIBUTION TO #13 CLIMATE ACTION

Renewable products can support customer goals to produce **durable consumer goods in a more sustainable manner**

- Up to 61% lower carbon footprint
- Up to 35% lower fossil depletion

¹ Regulation EC 1907/2006 and related ECHA list of restricted substances

² Directives 2011/65/EU, 2015/863/EU, 2017/2102/EU and amendments

CERTIFIED RENEWABLE PC AND COPOLYMER POTENTIAL BENEFITS

RENEWABLE COMPOUNDS



Bio-based resins of cracker feedstock:

- Easy drop in
- Virgin equivalent properties
- Mass balance approach
- Bio content certified by ISCC

COMPARED WITH CONVENTIONAL COMPOUNDS



Same product, **same** properties: requalification may not be required



Better carbon/energy footprint



Avoid fossil depletion (up to 35%)



Improve social impact



REACH and RoHS compliant

COMPARED WITH MECHANICAL RECYCLING



Same product, **same** properties: requalification may not be required



Better quality consistency



All color space



Virgin quality



Potential use in certain healthcare and food-contact applications

CERTIFIED RENEWABLE ULTEM™ RESIN – AVAILABLE 3Q 2021



Amorphous, transparent, amber, polyetherimide (PEI) resin:

- Long-term high heat capability
- Dimensional stability / tight tolerances
- Strength and modulus at high temperatures
- Inherent flame resistance
- Low smoke evolution and toxicity
- Hydrolytic and chemical stability



World's first ISCC+ certified bio high-temperature performance resin
Providing 25% bio content based upon mass balance approach

DESIGN FOR SUSTAINABILITY

WILLEM HAMERSMA

DESIGN FOR LOWER CARBON FOOTPRINT

13 CLIMATE ACTION



NET-ZERO CARBON

Application development for longer life and enhanced recyclability

RECYCLABILITY

- Single material use for the application
- Better recyclability versus thermosets
- Part simplicity (e.g. laser marking, mold-in-color)
- Non-halogenated Flame Retardant

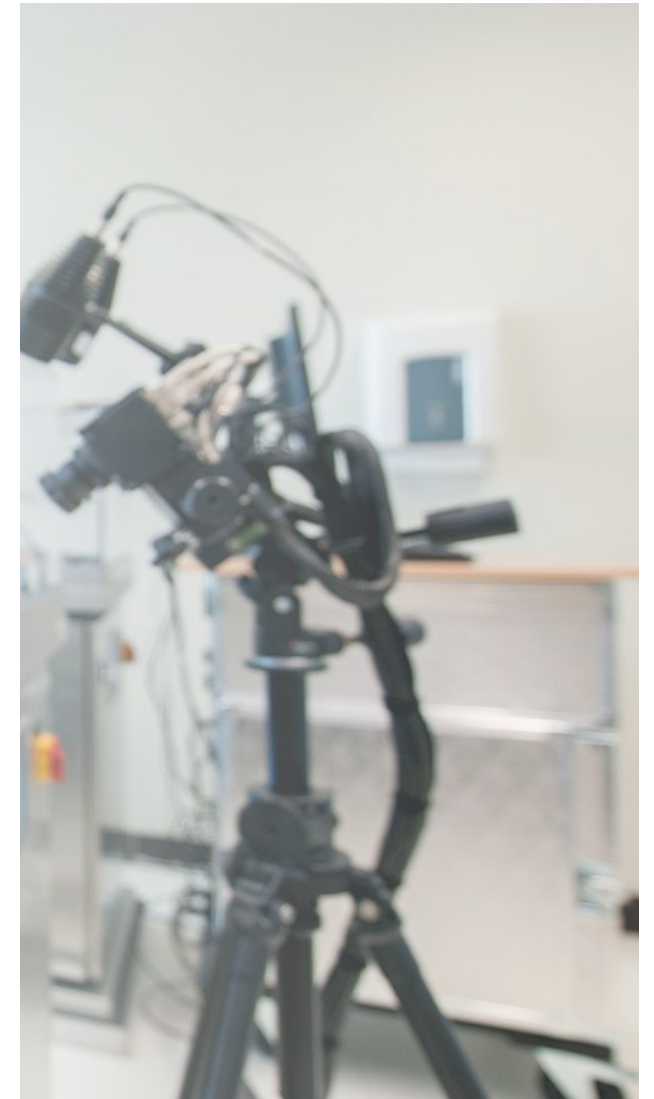
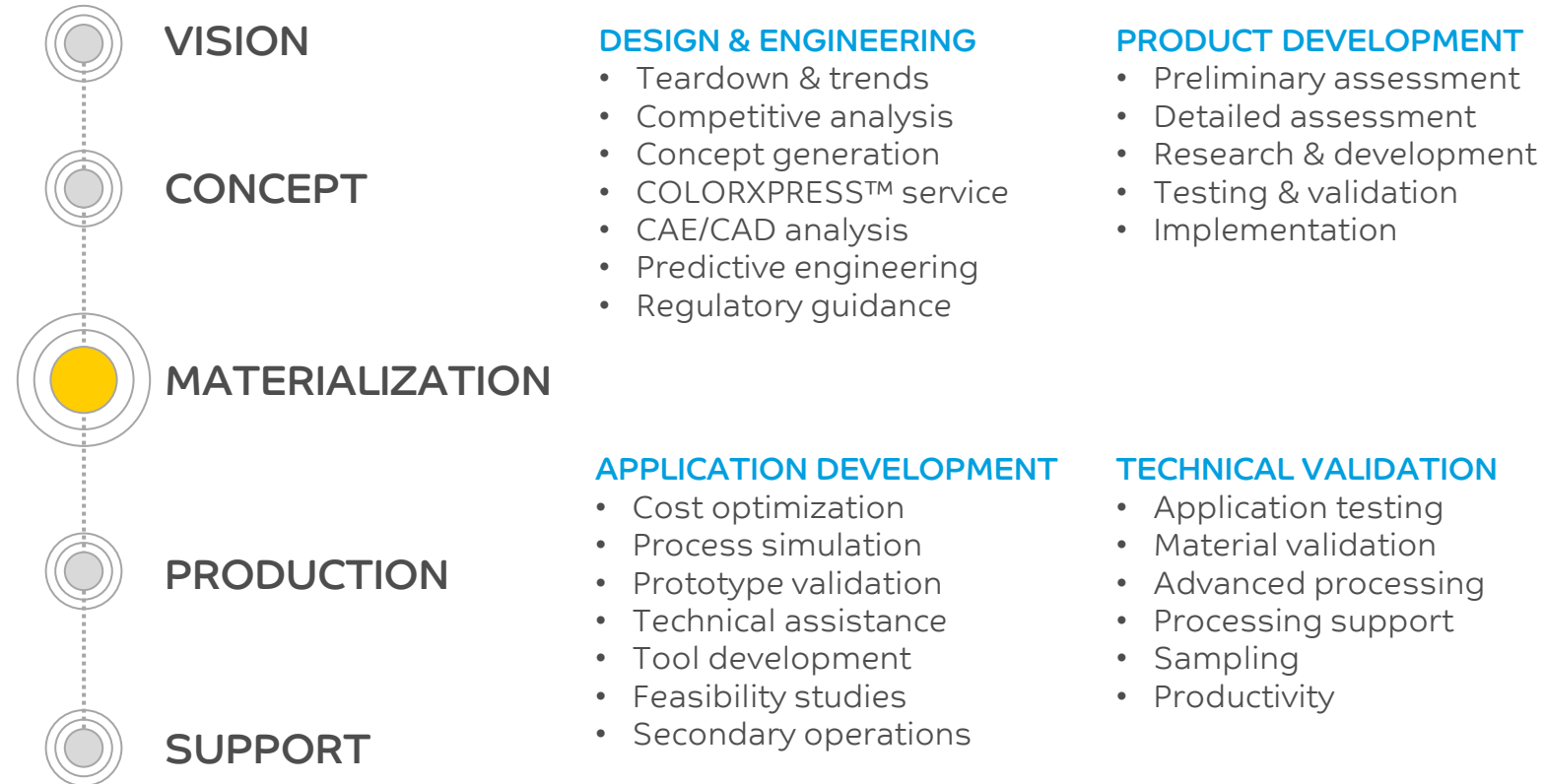
PROCESS EFFICIENCY

- Lower energy needs, cycle times and reject material
- Reduced fuel consumption via light weighting
- Elimination of secondary operations (paint, coating, labelling, etc.)

DURABILITY

- Good thermal conductivity for lightweight alternative to metal
- Better wear and friction performance
- Improved multiple use and lifetime of parts

WE ADD VALUE TO THE ENTIRE PRODUCT DEVELOPMENT CYCLE



COMBINING DIFFERENT SUSTAINABILITY TECHNOLOGIES TO ACHIEVE MAXIMUM CIRCULAR CONTENT AND REDUCED CARBON FOOTPRINT

SABIC DEBUTS NOVEL BIO-BASED LNPT™ COMPOUND TO HELP REDUCE CARBON EMISSIONS AND FOSSIL FUEL USE

SABIC today launched new LNPT™ THERMOCOMP™ DC0041PE-7M1D145W compound, its novel bio-based product. The new material offers customers a more-sustainable option vs. competitive materials for demanding applications in electrical/electronics, healthcare and other key industries. This new flame-retardant, carbon fiber-reinforced compound features a superior carbon/energy footprint compared to its incumbent product, LNP THERMOCOMP DC0041PE-7M1D145 compound, while delivering the same properties.

“SABIC continues to invest in cutting-edge research and development focused on improving the sustainability of our products without compromising on performance and processability,” noted Joshua Chiaw, Director, Business Management, LNP Compounds & NORYL Resins, SABIC. “All aspects of the value chain, from raw materials to finished goods, are certified through ISCC and compliant with regional and global regulations. The success of our first bio-based compound is inspiring us to accelerate our innovation efforts to develop totally new ways to support customers and protect the planet.”

Increasing Sustainable Content

For every 100 kg of LNP THERMOCOMP DC0041PE-7M1D145W compound, 21 kg of fossil-based materials have been replaced with bio-based materials derived from waste or residue, such as crude tall oil and hydrotreated vegetable oils, based on a mass balance approach. Moreover, this new compound was developed with over 50 percent of recycled content from post-consumer recycled (PCR) resin and pre-consumer recycled carbon fiber sources.



Integrating different sustainability technologies into formulation design to improve recyclable or renewable content and carbon footprint reduction.

RECYCLED AND RENEWABLE OFFERINGS & APPLICATION DEVELOPMENT FOR E-MOBILITY

DISPLAY

LNPT™ SLX resins based on **RENEWABLE** feedstock (weatherability, impact, chemical resistance)

CONSOLE

LNPT™ THERMOCOMP™ compounds based **PCR** (low moisture, high modulus, hydrolytic stability, chemical resistance)

FASCIA

LNPT™ SLX & EXL resins based on **RENEWABLE** feedstock (weatherability, impact, chemical resistance)



CONNECTOR & SOCKET

LNPT™ CRX resins based on **PCR** (dimensional stability, chemical resistance, high surface finish)

CHARGE PORT COVER

LNPT™ **ELCRIN iQ** upcycled compounds based on **PCR** (dimensional stability, chemical resistance, high surface finish)



CONNECTOR

LNPT™ THERMOCOMP™ compounds based on **PCR** (low moisture, high modulus, hydrolytic stability, chemical resistance)

FRAME

LNPT™ EXL resins based on **RENEWABLE** feedstock (weatherability, impact, chemical resistance)

OUR UNIQUE CHEMISTRY

SPECIALTIES & SDGs

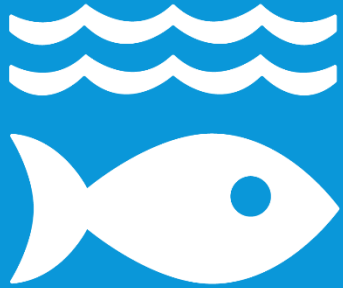
#14 LIFE BELOW WATER

#17 PARTNERSHIP FOR THE GOALS

4

CONSERVING VALUABLE RESOURCES THROUGH LNPT™ ELCRIN™ IQ TECHNOLOGY

14 LIFE
BELOW WATER



10 BY 10

OUR AMBITION IS TO DIVERT
10 BILLION PET SINGLE-USE BOTTLES IN 10 YEARS



*100 million PET bottles diverted since 2019.

SABIC JOINS NEW GLOBAL ALLIANCE TO HELP END PLASTIC WASTE IN THE ENVIRONMENT

17 PARTNERSHIPS FOR THE GOALS



ALLIANCE TO END PLASTIC WASTE

Plastic waste in the environment, particularly the ocean, is a serious global challenge that calls for swift action and strong leadership. Despite the many benefits plastics bring to people and communities around the world, including improvements in living standards, health, safety, and sustainability, unmanaged plastic waste has become a challenge in some parts of the world.

INNOVATING THROUGH THE VALUE CHAIN

Alliances across the value chain

- **SABIC** is a **founding member** of the Alliance to End Plastic Waste since January 2019, a not-for-profit organization consisting of 27 global companies to advance solutions to help reduce mismanaged plastic waste in the environment.
- The goal is for Alliance members to deploy \$1.5 billion over the next five years to help end plastic waste in the environment and a comprehensive strategy to make progress.

SUMMARY

AARON LITOFF

5

JOIN US AND HELP CLOSE THE LOOP

More than what we say, it's what we do that matters.
At SABIC, we remain true to our purpose by delivering on our commitments:



1 DRIVING PERFORMANCE FOR CUSTOMERS

We push the limits of quality, efficiency, and performance to drive customer success with our broad portfolio of products and services.



2 LONG TERM COMMITMENT TO SUSTAINABILITY

We strive for innovative solutions for ever better performance from resource efficiency to reducing material use and waste and enhanced quality of life for everyone.



3 BUILDING VALUABLE RELATIONSHIPS

We collaborate closely to create opportunities. Our one global dedicated team serving the packaging market enables ease of doing business

WE ADD TRANSPARENCY TO THE ENTIRE PRODUCT DEVELOPMENT CYCLE

- ~40 grades Recycle Certificates available for PCR PC and iQ PBT grades
- Verified responsible source certificate available for ELCRIN iQ grades
- GRS certifications for textile and fiber applications for iQ-PBT
- ISCC+ Mass balance certification for bio-based products
- Lifecycle Assessment (LCA) critically reviewed by 3rd party for ELCRIN iQ PBT process
- Multiple grade carbon footprints across portfolios to support customers



CERTIFICATIONS, CARBON FOOTPRINT DATA ARE CURRENTLY AVAILABLE ON SCS WEBSITE
[Certified Green Products Guide | SCS Global Services](#)

LET'S WORK TOGETHER FOR NET-ZERO EMISSIONS & CLIMATE RESILIANCE

13 CLIMATE ACTION

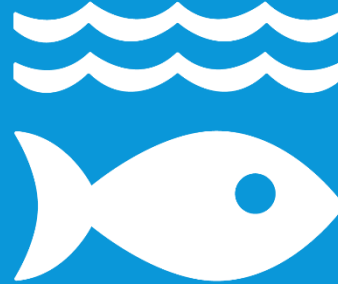


NET-ZERO CARBON

Specialty material performance with lower carbon footprint

Application development for longer life and enhanced recyclability

14 LIFE BELOW WATER



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Our market ambition is to divert 10 Billion PET single-use bottles in 10 years

17 PARTNERSHIPS FOR THE GOALS



INNOVATING THROUGH THE VALUE CHAIN

Alliances across the value chain

WE ARE READY TO ANSWER YOUR QUESTIONS



AARON
LITOFF

Global Account Manager
Consumer Electronics



YUANQING (EMILY)
HE

Senior Product Manager
LNPTM Compounds



WILLEM
HAMERSMA

Senior Product Manager
LNPTM Compounds



VANDITA PAI-
PARANJAPE

Staff Scientist
Megatrends & Incubation



MARK VAN
DER MEE

Senior Manager LNPTM
Technology Europe

PRESENTERS

PANELISTS

CONNECT WITH US

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SHOWCASE PAGES
SABIC'S SPECIALTIES
SOLUTIONS

SABIC Solutions for [Water Management](#)

SABIC Solutions for [Additive Manufacturing](#)

SABIC Solutions for [Healthcare](#)

SABIC Solutions for [Mobility](#)

SABIC Solutions for [Electrical & Electronics](#)

SABIC Innovations with [ULTEM™](#) and [EXTEM™](#) Resins

SABIC Innovations with [LNPT™](#) Products



THANK YOU



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