CHEMISTRY THAT MATTERS™



INNOVATIVE SOLUTIONS FOR SUSTAINABLE RECYCLING

MARK VESTER Business Unit Director PE - Europe



SABIC AT-A-GLANCE





1976 Company established

86

US\$ bn

Total

assets



34,000

Employees around the world

4.9

US\$ bn

Net

income

E C

50

Countries of operations

39.9

US\$ bn

Annual revenue



3rd

Largest global chemical company*



≈ 150

New products each year



120th

Largest public company in the world*



11,534

Global patent filings

3.7

US\$ bn

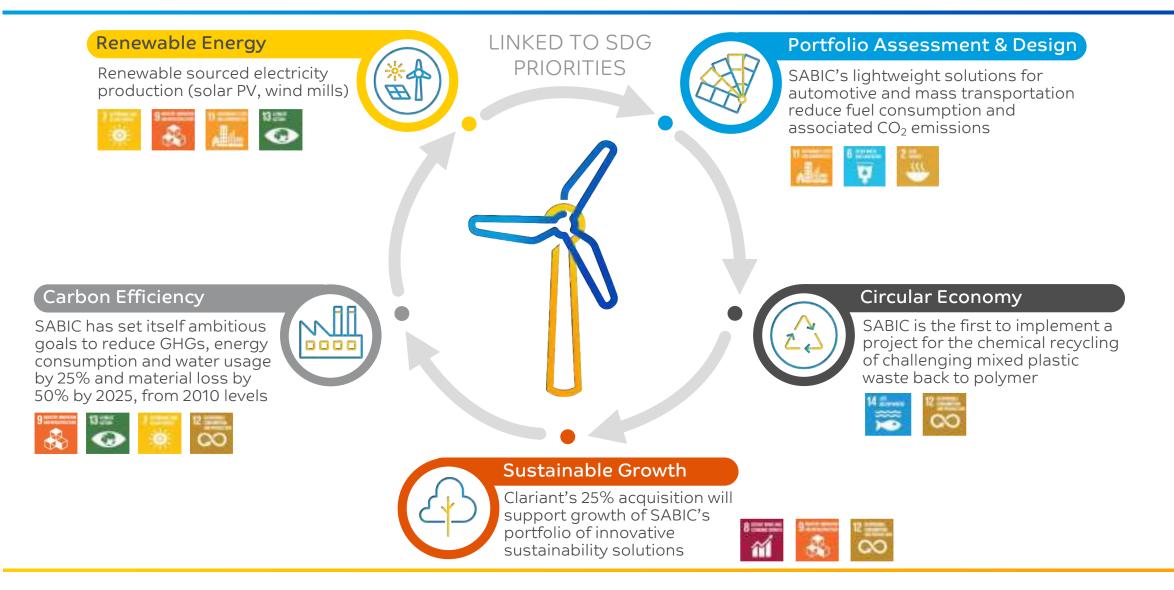
Estimated Brand Value**

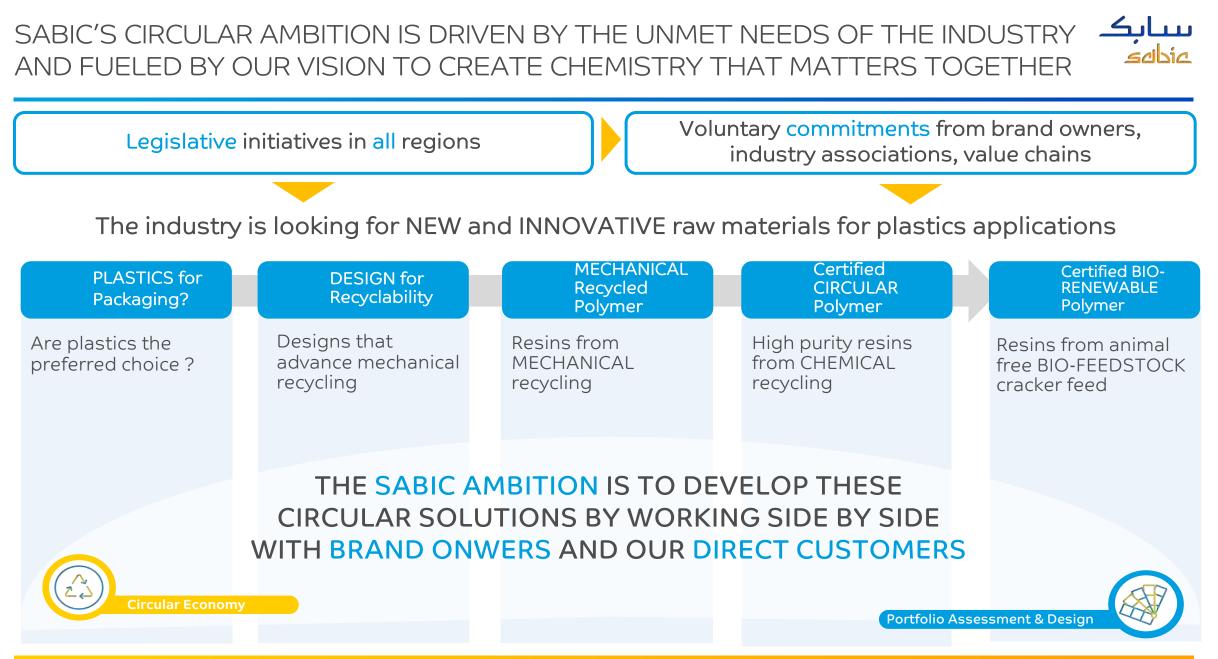


World-class plants worldwide



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







SABIC PIONEERS IN CIRCULAR POLYMERS THROUGH CHEMICAL RECYCLING

SABIC IS THE FIRST IN THE INDUSTRY THAT IS COMMITTED TO SCALE UP CHEMICAL UPCYCLING OF MIXED PLASTIC WASTE TO THE ORIGINAL POLYMER.





DAVOS, SWITZERLAND, January 24, 2019

SABIC AND CUSTOMERS LAUNCH CERTIFIED CIRCULAR POLYMERS FROM MIXED PLASTIC WASTE

- SABIC and customers Unilever, Vinventions and Walki Group will introduce ISCC certified circular polymers in 2019 during a market foundation stage.
- SABIC's certified circular polymers will be produced in The Netherlands from a recycled
 plastic waste feedstock developed by PLASTIC ENERGY and offer a drop-in alternative for
 customers looking at meeting the needs of various challenging applications.
- The initiative to upcycle mixed plastic waste back to the original polymer supports SABIC's and its feedstock supplier and customers commitment to providing innovative solutions for a circular economy.







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VINVENTIONS

WHY IS IT THIS GOOD?



VALUE OFFER FOR SABIC'S CERTIFIED BIO-BASED RENEWABLES & SABIC'S CERTIFIED CIRCULAR POLYMERS

- Replacing fossil based feedstock
- No compromise on product packaging safety
- Identical product specifications to SABIC's current PO portfolio
- No modifications to production processes down-stream,
- Feedstock source has a lower carbon footprint compared to fossil alternative
- Recyclable
- 2nd generation renewable feedstock, not in competition with the food chain (only applicable for cert. bio-based renewables)









WHY MASS BALANCE APPROACH ?





PETROCHEMICAL REFINING Polyethylene Ethylene Refinery off-gas Propylene Polypropylene LPG/Naphtha Reforming Butadiene, C4s Distillate Polystyrene PS Expandable EPS desulfurization Gasoline C3 and C Polymers X-Y-Z Conversion Substance Distillates units Substano C5 and C9 resins

A distillation process turns crude oil into lighter fractions. One fraction, naphtha is one of the major feedstock for plastics. Monomer production lines are not dedicated to specific applications

- A CRUCIAL BRIDGE between today's linear economy and the sustainable circular plastics economy of the future.
- An innovative & CRUCIAL INSTRUMENT to stimulate the FULL TRANSITION to new feedstock (~ pyrolysis oil)
- The RELATIVELY SMALL VOLUMES of new feedstock have to be MIXED with conventional fossil-based feedstock in SABIC's current world-scale production units
- HIGH COMPLEXITY to run cracker and downstream outlets
- The mass balance & certification concept allows the total value chain to make together concrete steps in using new feedstock IN COMMERCIAL APPLICATIONS

THANK YOU

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