

CHEMISTRY THAT MATTERS™



CASE STUDY SABIC'S RESPONSE TO EUROPE'S CIRCULAR AND CLIMATE AMBITIONS

MARCH 16TH, 2021

tbd

COMPANY CONFIDENTIAL

THE COMMON CHALLENGE

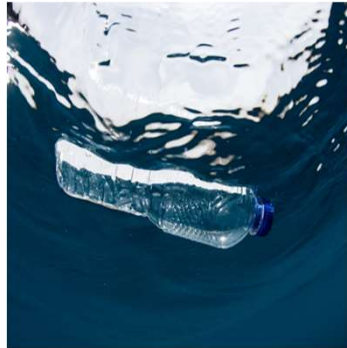
EXISTING BENEFITS



LIGHTWEIGHT -
STIFFNESS -
IMPACT - DURABILITY -
COST - SAFETY -
APPEARANCE

ISSUES TO SOLVE

- Marine Litter & Plastic Pollution



PUBLIC OPINION

- Negative attention to plastics in all media
- Waste issue overshadows advantages of plastic products

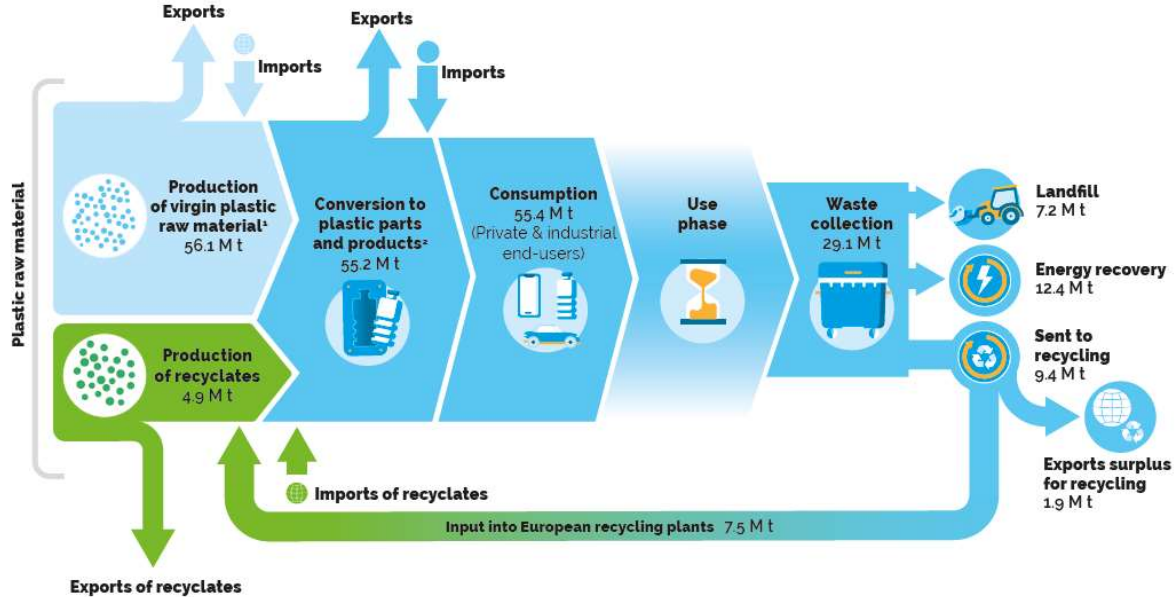


LEGISLATION

- Authorities increasing pressure on our industry for establishing a circular economy



EUROPE - LOW LEVELS OF PLASTIC RECYCLING NOT ACCEPTED ANYMORE



➤ Mechanical Recycling will remain important – adjacent solutions needed to reach required recycling levels

TRUCIRCLE™ INITIATIVES AND CASE STUDIES

SABIC's TRUCIRCLE™ portfolio and services for circular solutions



**DESIGN
FOR REUSE /
RECYCLABILITY**



**MECHANICALLY
RECYCLED
PRODUCTS**



**CERTIFIED
CIRCULAR
PRODUCTS**

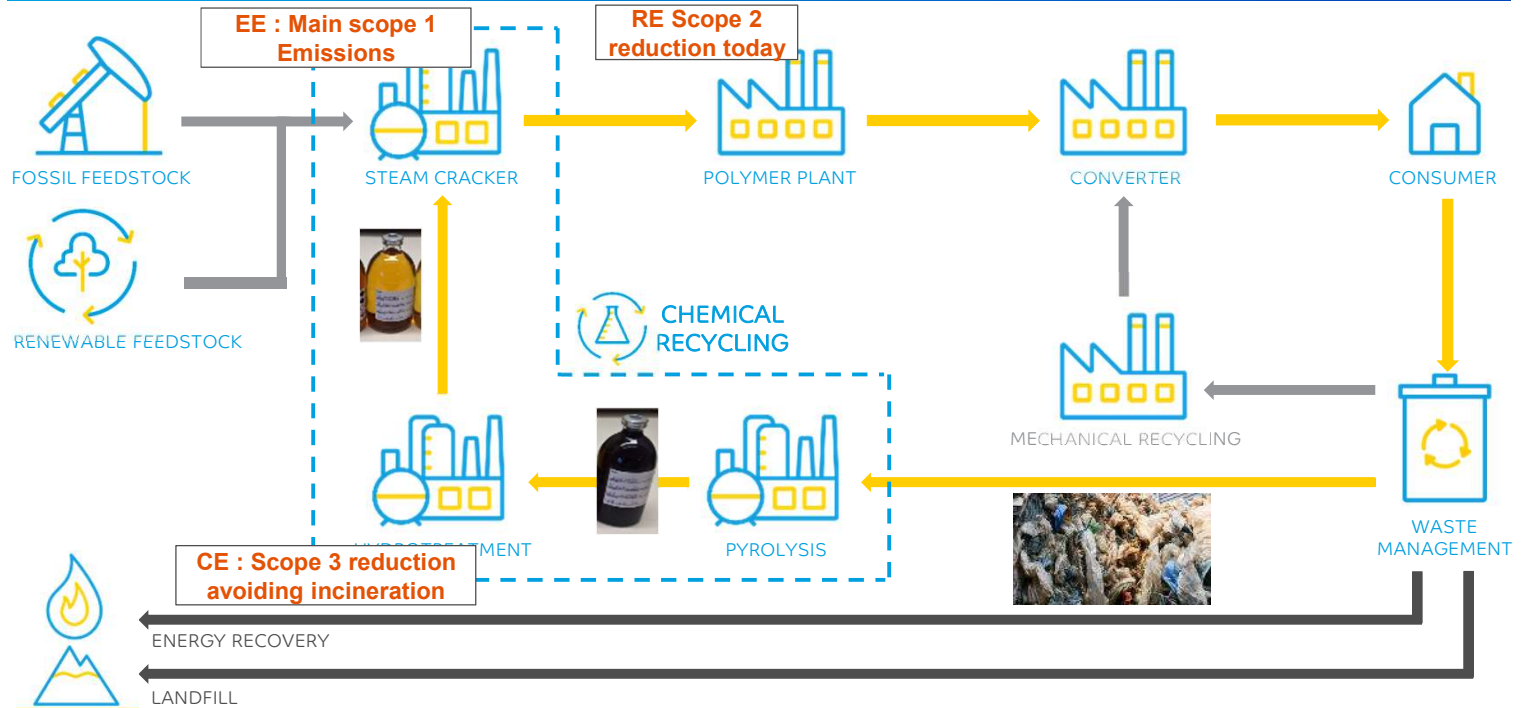


**CERTIFIED
RENEWABLE
PRODUCTS**



CLOSING THE LOOP AND CREATING A CIRCULAR ECONOMY FOR PLASTICS

THE CONCEPT "FROM LINEAR TO CIRCULAR"



SABIC'S EU CLIMATE VISION AND DERIVED ROADMAP

- SABIC supports the Long Term ambition to become **climate neutral by 2050**.
- EU Climate Law GHG reduction of 55% by 2030 **on scope 1 (direct)** is not achievable
- SABIC has **the solution**, building on a differentiated CE strategy **addressing both climate & CE**
 - **Circular Economy** is Chemical Recycling & Renewable Feedstock (**Scope 3**)
 - **Renewable Electricity** (**Scope 2**)
 - **Energy Efficiency**
 - **Furnace electrification**

Climate-neutrality will require a broad range of technological options .. including recycling of plastic waste. Unless such CO2 reductions are accounted for in a coherent manner, there will not be enough incentives to scale-up.

CERTIFIED CIRCULAR POLYMERS

Contributes to

- **WASTE MANAGEMENT**
- **FOSSIL FEEDSTOCK AVOIDANCE**
- **CO2 EMISSION AVOIDANCE VS INCINERATION**



Virgin resins and chemicals from difficult to recycle plastic waste streams produced through feedstock recycling

Cradle to Gate” study shows **reduction of about 2 kg CO₂ per kg** compared to fossil route*.



THANK YOU



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