

## **Sustainable Plastics Solutions – Key Pillars for the Transformation to Net-Zero**

Oliver Geiger BASF SE

Car Symposium Bochum, May 03rd - 04th, 2023



We create chemistry

#### The Essentials for Sustainable Plastic Materials



Mercedes-Benz



40% recycled Material in 2030



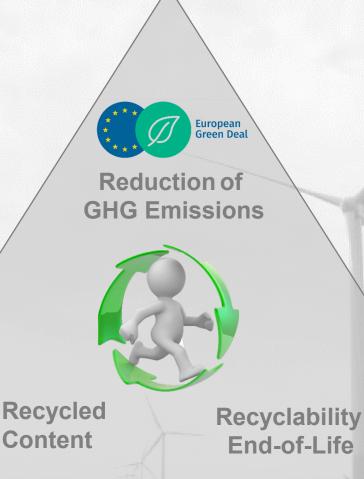


Hyundai is in progress to achieve carbon neutrality by 2045



A net-zero automotive parts











#### VOLKSWAGEN

VW 91102 Issue 2022-02 Group standard **Environmental Standard for Vehicles** Recycling Requirements, Use of Recycled Material, Recyclability Type

Approval





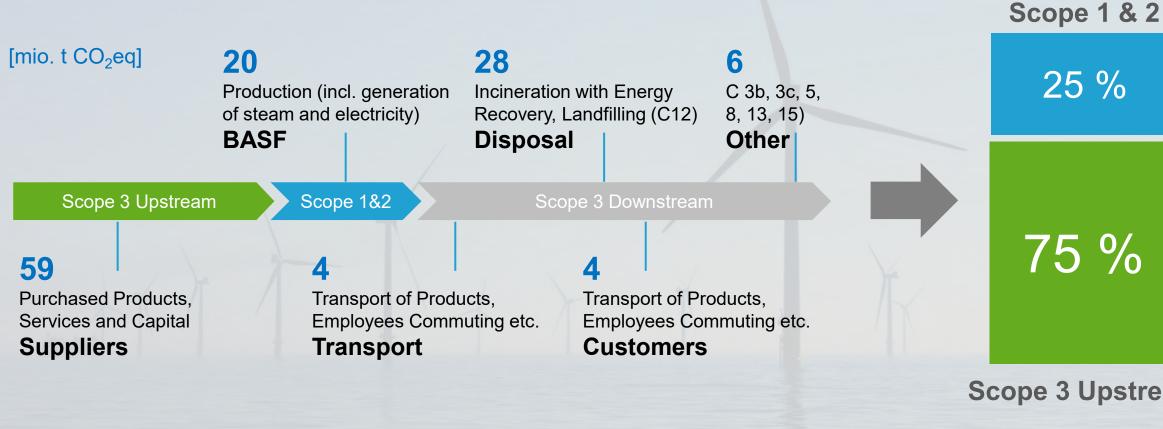


We reduce
GHG Emissions

**BASF: Our Commitments To Reaching The Paris Climate Agreement** 25% CO<sub>2</sub> emissions reduction (compared with 2018)1 **NET ZERO** CO<sub>2</sub> emissions<sup>1</sup> 2030 2050 <sup>1</sup> Scope 1 and Scope 2; 2030 target compared with 1990: 60% CO<sub>2</sub> reduction | CAR Symposium - Sustainable Plastics Solutions | BASF SE

#### **Company Carbon Footprint BASF**

Reference year 2021

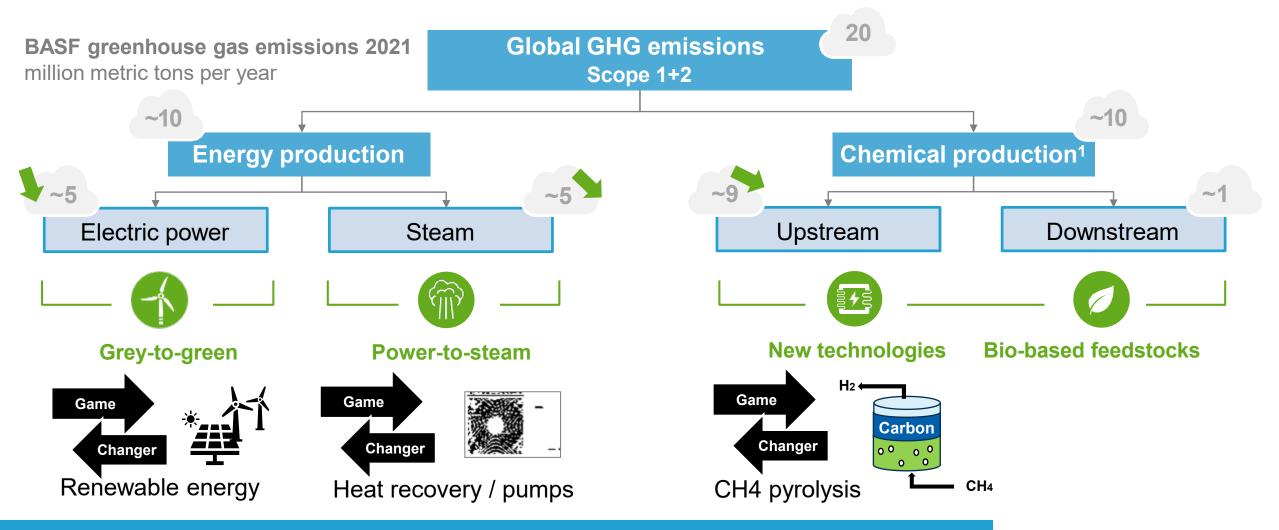


25 % 75 %

**Scope 3 Upstream** 



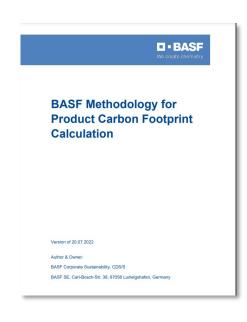
#### Reducing BASF Emissions with Electrification + Green Electricity



CO2 free electricity with heat recovery and new technologies reduce emissions



## BASF driving towards a globally endorsed standard for PCF calculation in the chemical & plastic industry within Together for Sustainability (TfS)

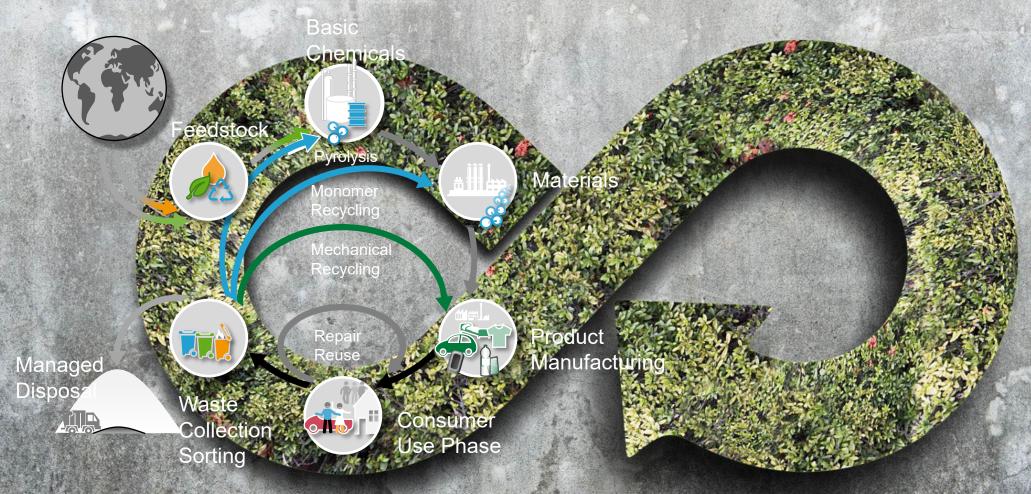




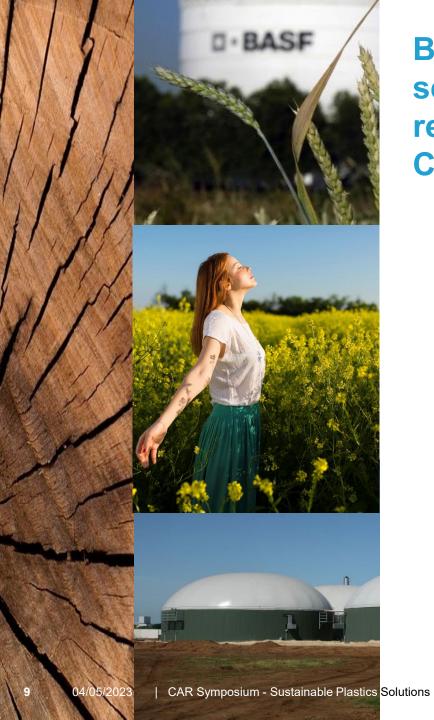




### We think Circular







#### **BASF** sustainable plastics solutions use secondary raw materials to save fossil resources and help to reduce product CO<sub>2</sub> footprint

Maturity

**Available products** 

Available area

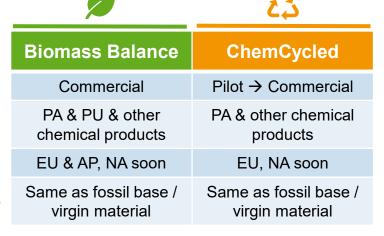
**Product performance** 

**Base material** 

Conversion (A)



Non-fossil cracker feedstock



Waste/Residue based Biomass





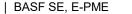
**End-of-Life Tires** 



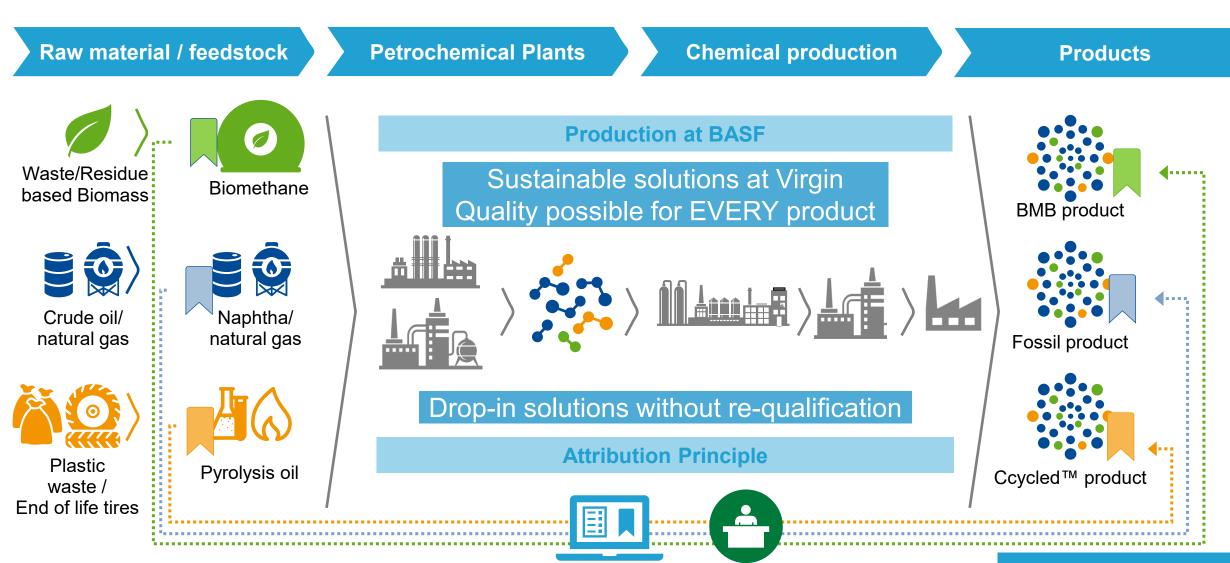








#### Mass Balance Approach allowing sustainable drop-in solutions



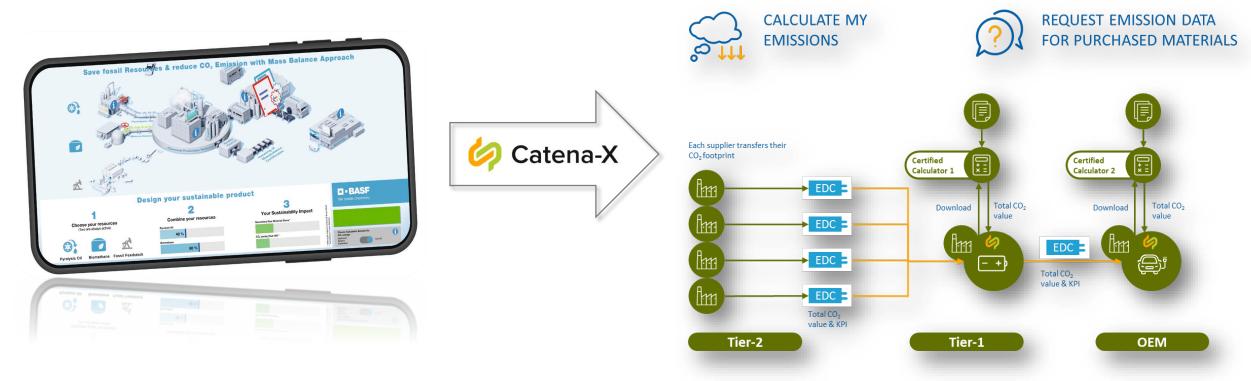
■ ■ BASF
We create chemistry

#### From End-of-Life Car Tyre to Door Handle



L-BASI

#### Digitalization of Sustainability Solutions with Catena-X



Tailor make your Mass Balance Product

Share sustainability attributes along the Chain of Custody



#### **Sustainable Plastics Solutions**



Renewable Energy and New
Technologies that drive
Electrification of chemical
manufacturing processes are
essential to reduce GHG
Emissions of Plastics
Production



We think Circular
utilizing the mass balance approach
to produce Prime Quality Plastics
by means of ChemCycling and
Biomass Balance, both saving
fossil raw material resources and
reducing CO<sub>2</sub> emissions



Catena-X as one shared
global data space is
strengthening the Supply
Chain Resilience and enables
Decarbonization by working
with Primary PCF Data that
put targets into action





# II BASE We create chemistry