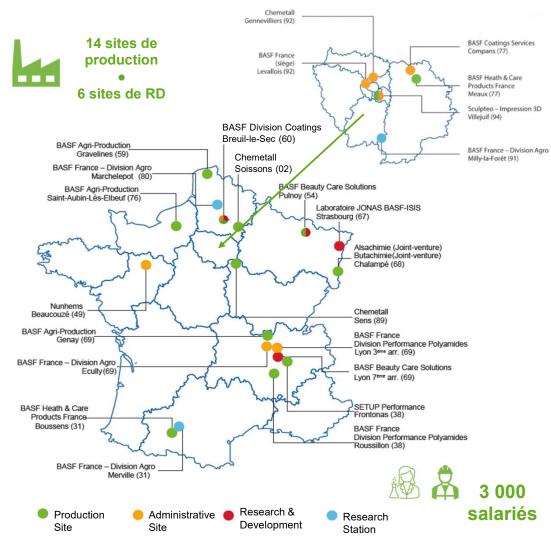


Transition Pathway & BASF

May 2025

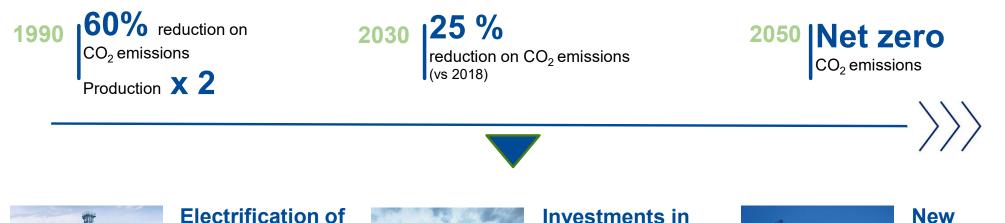




BASF en France

Carbone & Climat

BASF has made considerable efforts to decarbonize its production and reduce its greenhouse gas emissions.





- 90%
CO2

emission via e-vapocraqueur



Investments in REn **1 st**

global offshore wind farm



New Technologies H₂ via methane pyrolyse



Our initiatives support the ChemTP across the entire value chain



Digital Data Chain Consortium

Catena-X

Battery Passport

Competition for talent

- Learning and development
- **Diversity & inclusion**
 - BASF

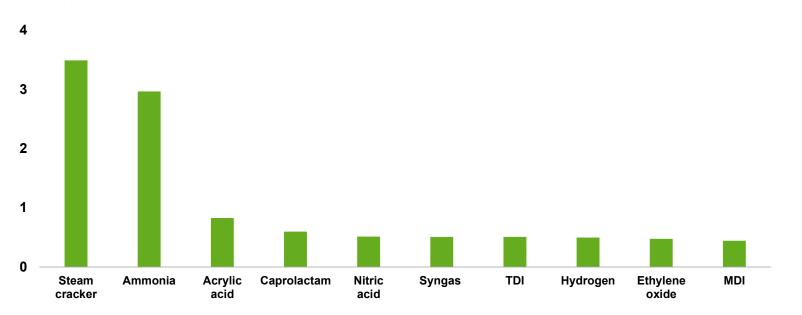
Selected

SEEbalance®

ProScale

Product Carbon Footprint

Ten base chemical production technologies cause the majority of BASF's CO₂ emissions



Greenhouse gas emission profile of BASF technologies Energy and chemistry emissions, million metric tons per year¹

BASF has identified its CO₂-intensive processes and is addressing them

BASF
We create chemistry

¹ Based on nameplate capacities, March 2021, excluding at-equity consolidated companies

We are making progress on technologies for CO₂ abatement

eFurnace



eFurnace¹ demonstration plant in Ludwigshafen inaugurated with SABIC and Linde; testing of material behavior and process on industrial scale ongoing



Water electrolysis



Positive funding decision for 54 MW water electrolysis² plant in Ludwigshafen (Hy4Chem-EI) granted in November 2023; startup planned in 2025

 For Consume Arbitrary for Consume Arbi

CCS projects



BASF and Yara evaluating worldscale blue ammonia project using CCS in the United States³

CCS project to reduce BASF's CO_2 emissions in Antwerp by 1 million tons per year slated for startup in 2028



¹ Supported by the Federal Ministry for Economic Affairs and Climate Action (BMWK) and funded by the European Union ² Supported by the Federal Ministry for Economic Affairs and Climate Action (BMWK) and the State of Rhineland-Palatinate ³ Total capacity 1.2 to 1.4 million tons p.a.

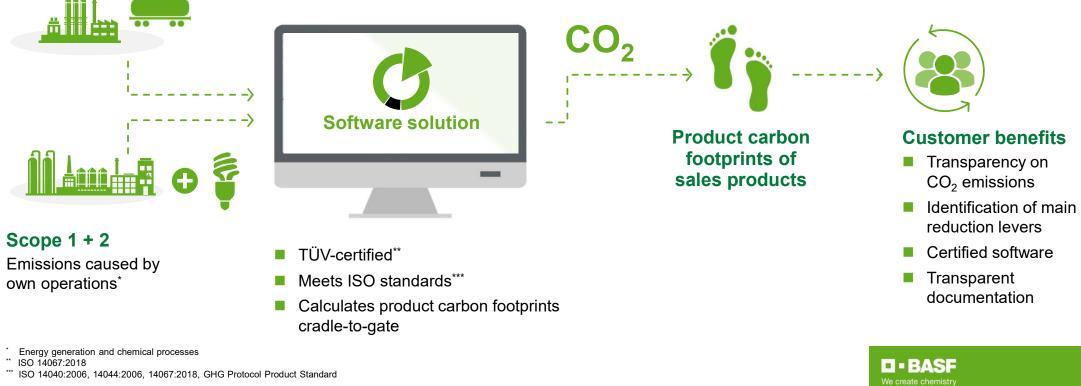
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We have built an industry-leading system enabling us to provide product carbon footprints calculated with a certified digital solution

Scope 3

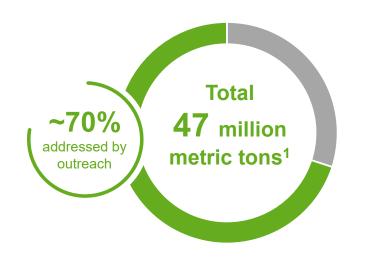
Emissions caused by suppliers and generation of raw materials



7

We have a solid foundation for primary Scope 3.1 emission data

BASF's CO₂e emissions from raw material purchase 2023



- Supplier CO₂ Management Program started in 2021 to collect primary emission data for purchased raw materials
- Collaboration through knowledge sharing on PCF calculation methodology ongoing to ensure engagement and quality of data
- More than 1,600 suppliers have been approached, accounting for ~70% of our raw-materials related Scope 3.1 emissions¹
- We now have more than 1,000 validated product carbon footprints for our raw materials
- We make product carbon footprints (PCFs) a buying criterion to reduce our Scope 3.1 emissions and thus the PCFs of our sales products

¹ Greenhouse Gas Protocol Scope 3.1: Purchased goods and services: 47 million metric tons CO₂e, thereof 4 million metric tons not in scope of our Scope 3.1 target from battery materials, services and technical goods; excluding greenhouse gas emissions from BASF trading business



TripleS method increases measurability and transparency on sustainability



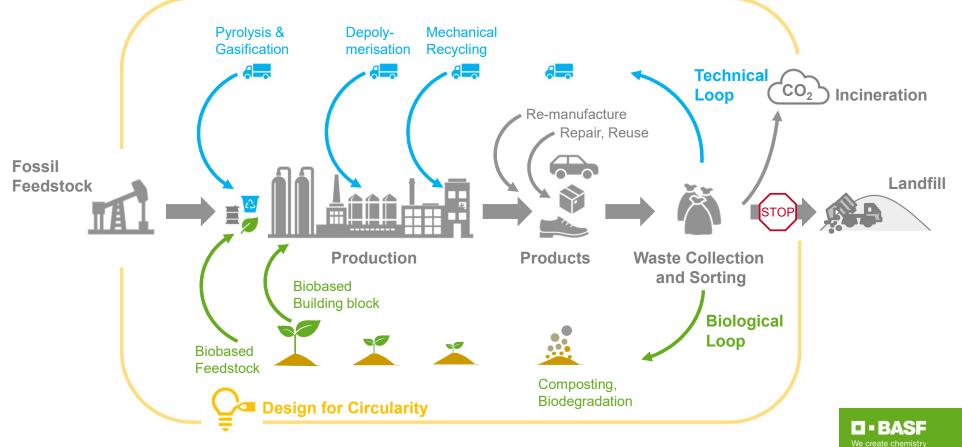
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- Methodology refined after achieving 2025 Accelerator target ahead of schedule in 2021
- Each product in its specific application and considering regional aspects is assigned to one of five TripleS segments
- Steer our product portfolio to transformation topics such as climate change & energy, resource efficiency and circularity with Pioneer and Contributor products
- TripleS is more deeply integrated into our R&D development processes, considering Safe and Sustainable by Design framework by the E.U. Commission
- BASF's TripleS logic is in line with the Portfolio Sustainability Assessment (PSA) from the World Business Council for Sustainable Development



We strive to close the loop and extend the loop

by transforming from fossil to renewables and recyclates; enabling circularity, higher durability and prolonged lifetime of products



By using alternative raw materials, we can reduce fossil feedstock demand and contribute to a circular economy

Recycled feedstock

Renewable feedstock

Dedicated mechanical recycling



e.g., mechanically recycled feedstock from expanded polystyrene (EPS) waste

Chemical recycling (e.g. ChemCycling[®])



e.g., pyrolysis oil derived from plastic waste or end-of-life tires

Mass balance approach

Biomass balance



e.g., biomethane or bio-naphtha derived from biomass (waste)

Dedicated bio-based production

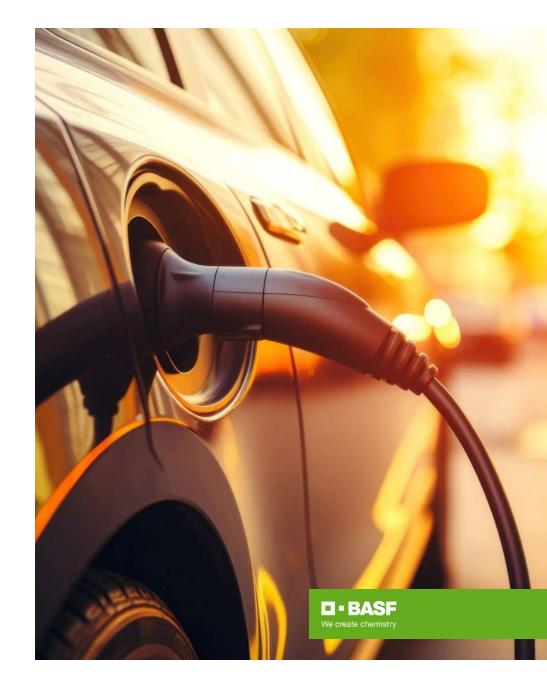


Sustainably sourced biobased resources, e.g., RSPO-certified palm oil

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Building a Circular Economy Battery Recycling in Europe

- Using metals from recycled batteries to make new battery materials offers significant CO₂ reduction potential in the production of electric vehicles and supports the growing metals demand and ambitious requirements of the circular economy policies.
- In Schwarzheide, Germany, BASF operates the first colocated center for battery materials and recycling in Europe. The black mass plant is one of the largest commercial plants in Europe and BASF is able to process 15,000 tons of end-of-life batteries and production waste.
- Moreover, BASF operates a prototype refining facility in Schwarzheide for the extraction of lithium, nickel and cobalt.
- Thus, together with its strong partner network, BASF has taken important steps towards a circular economy for battery materials in Europe.



12 Circular Economy @ BASF

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