

Cautionary note regarding forward-looking statements

This presentation contains forward-looking statements. These statements are based on current estimates and projections of the Board of Executive Directors and currently available information. Forward-looking statements are not guarantees of the future developments and results outlined therein. These are dependent on a number of factors; they involve various risks and uncertainties; and they are based on assumptions that may not prove to be accurate. Such risk factors include those discussed in Opportunities and Risks on pages 151 to 160 of the BASF Report 2021. BASF does not assume any obligation to update the forward-looking statements contained in this presentation above and beyond the legal requirements.



Agenda

At a glance

Reporting Q3 2022

3

Pushing the transition to a sustainable economy

Unique position to capture growth in Asia

Battery materials driving electromobility and future growth



What is driving BASF's future growth?

Global trends provide opportunities for growth in the chemical industry

Population growth:

+24%

Driven by the emerging markets

2021 to 2050

Digitalization:

Rapid growth in volume of data

660

zettabytes in 2030

China the largest market:

~50%

Share of global chemical market

by 2030

Climate change:

Required reduction of greenhouse gas emissions to achieve the 2°C goal

-70%

by 2050 (baseline 1990)

Circular economy:

Non-recycled plastics worldwide

~200

million metric tons per year

Electromobility:

Growing demand for battery materials

~21%

per year 2021 to 2030



Unique position to deliver long-term value

Unique Verbund concept

- 6 Verbund sites globally
- 232 additional production sites worldwide
- 7.3 million metric tons of CO₂ avoided globally in 2021

Industry-leading innovation platform

- €2.2 billion R&D expenses in 2021
- ~10,000 employees in R&D
- Sales of ~€11 billion in 2021 with products launched during last 5 years

Strong and expanding local presence in fast growing Asian market

- 2 Verbund sites already
- ~70 production sites
- **€21.2 billion**¹ sales in 2021
- Strong volume and earnings development of BASF in Greater China

Creating value to society and contributing to a sustainable development

- Target: 25% CO₂
 emission² reduction
 by 2030
 (compared with 2018)
- We aim to achieve net zero CO₂ emissions² by 2050
- Achieve €22 billion in Accelerator sales by 2025 (already reached in 2021: €24.1 billion³)

Progressive dividend policy

- Aim to increase the dividend per share every year
- Dividend of €3.40 per share for 2021



¹Sales in Asia Pacific by location of customer. Only includes sales from BASF entities fully consolidated according to IFRS 10/11

² Includes Scope 1 and Scope 2 emissions. In March 2021, we replaced our previous target of CO₂-neutral growth until 2030 (baseline 2018: 21.9 million metric tons of CO₂e) with a new, more ambitious climate protection target to reduce absolute CO₂ emissions by 25% compared with 2018 (new target: 16.4 million metric tons of CO₂e).

³ We already reached our 2025 sales target for Accelerator products in 2021. Consequently, we will update our product portfolio steering target over the course of 2022.

The BASF Group's segments in 2021



Chemicals¹

The Chemicals segment consists of the Petrochemicals and Intermediates divisions. The segment supplies BASF's other segments and third-party customers with basic chemicals and intermediates.

- Sales 2021: €13,579 million
- EBIT before specials items 2021: €3,092 million



Surface Technologies

The Surface Technologies segment comprises the Catalysts and Coatings divisions. The segment offers chemical solutions for surfaces such as battery materials and automotive coatings.

- Sales 2021: €22,659 million
- EBIT before specials items 2021: €800 million



Materials

The Materials segment is composed of the Performance Materials and Monomers divisions. The segment offers advanced materials and their precursors for the plastics and plastics processing industries.

- Sales 2021: €15,214 million
- EBIT before specials items 2021: €2,418 million



Nutrition & Care

The Nutrition & Care segment comprises the Care Chemicals division and the Nutrition & Health division. The segment produces ingredients and solutions for consumer applications such as nutrition and personal care.

- Sales 2021: €6,442 million
- EBIT before specials items 2021: €497 million



Industrial Solutions

The Industrial Solutions segment consists of the Dispersions & Resins and the Performance Chemicals divisions. The segment develops and markets ingredients and additives for industrial applications.

- Sales 2021: €8.876 million
- EBIT before specials items 2021: €1,006 million



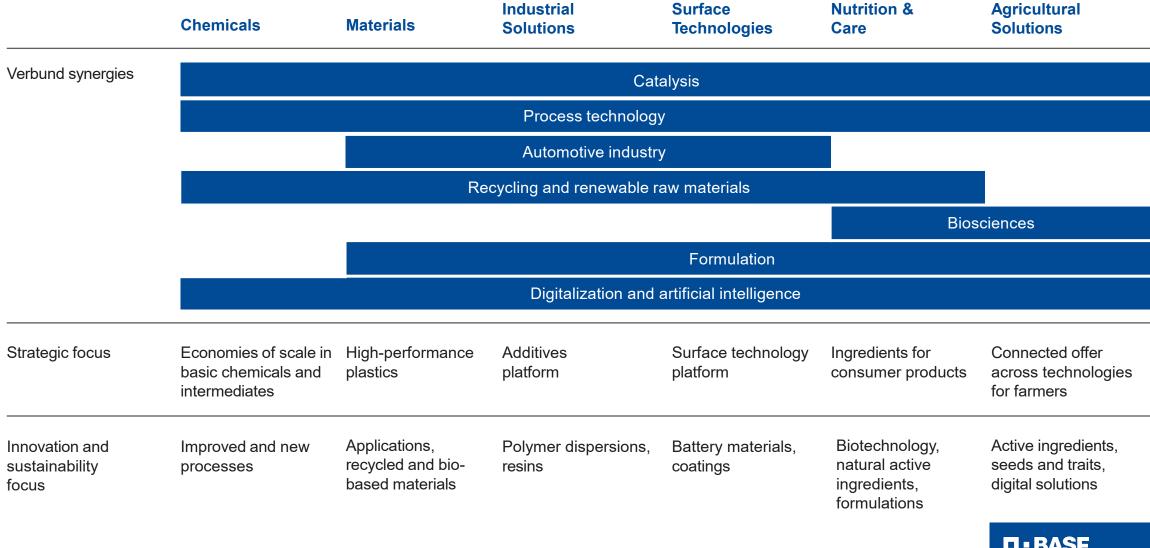
Agricultural Solutions

The Agricultural Solutions segment is an integrated provider of seeds, crop protection and digital technologies and solutions.

- Sales 2021: €8.162 million
- EBIT before specials items 2021: €715 million



Strategic alignment of BASF's segments



Our unique Verbund concept is one of BASF's greatest assets with multiple benefits strengthening the portfolio

Production

- 7.3 million metric tons of CO₂ emissions avoided globally in 2021
- Integration enables drop-in solutions for bio-based and recycled feedstock for low-carbon products



Technologies

- Leverage technological advantages and innovation across all segments
- Unique expertise in developing and integrating new, lowemission technologies

Value Chains

 Ensure competitive supply of key raw materials and products to all segments while avoiding CO₂ emissions

Markets

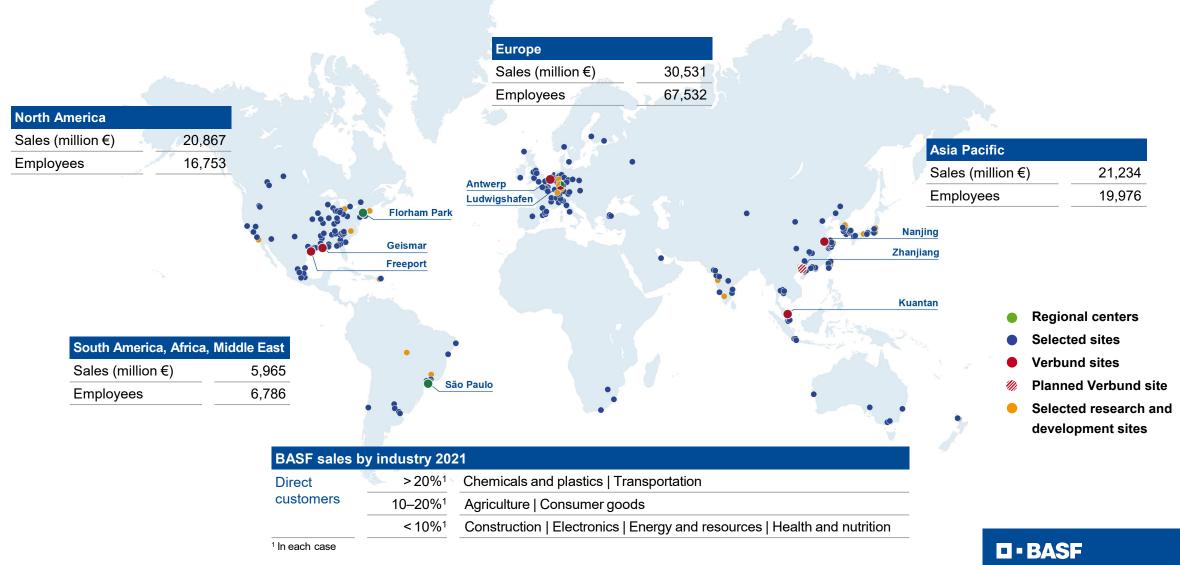
 Create customer relevance through size and broad portfolio

Digitalization

 Harvest the advantages offered by digitalization across BASF, for example, by calculating product carbon footprints



We operate close to our customers in all regions worldwide



Use of cash – clear focus on long-term shareholder value



- €25.6 billion capex budget 2022-2026
- Around €2.2 billion in R&D expenses per year



- Aim to increase dividend per share every year
- Solid balance sheet and strong free cash flow support dividend policy



- Strengthen portfolio through selective M&A opportunities while maintaining price discipline
- Focus the portfolio with continued pruning measures

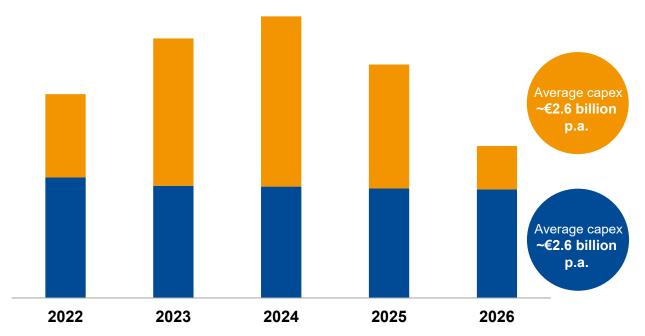


- Share buyback program 2022-2023 with a volume of up to €3 billion
- Repurchased shares to be canceled, reducing the share capital accordingly

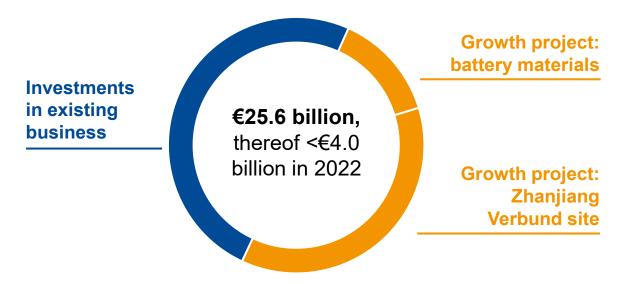


BASF Group: High capex discipline in existing business to support investments in growth projects





Capex budget by type of investment Billion €, 2022–2026



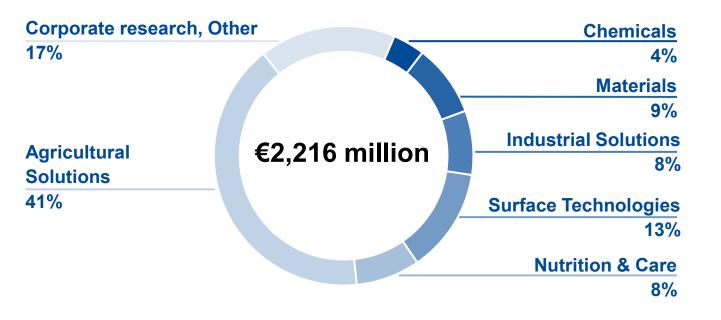
Growth projects: Zhanjiang Verbund site and battery materials

Investments in existing business



BASF's industry-leading innovation platform ensures long-term organic growth

R&D expenses 2021



Key facts 2021

- R&D expenses to sales ratio 2.8%
- Commitment to R&D with annual spending of ~€2.2 billion
- ~10,000 employees in R&D
- ~820 new patents filed in 2021
- Research Verbund: 8 Academic Research Alliances are complemented by cooperations with ~280 universities and research institutes
- ~€11 billion sales generated from R&D activities with products launched during last 5 years
- Accelerator sales of €24 1 billion¹ in 2021
- Peak sales potential of BASF's Agricultural Solutions innovation pipeline of >€7.5 billion between 2021 and 2031

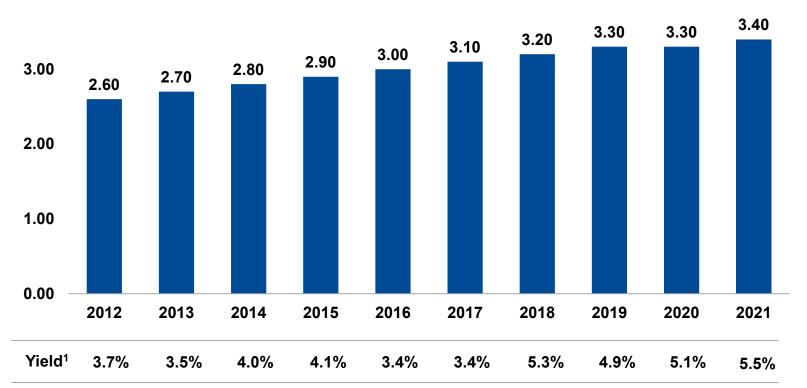


Attractive shareholder return

- clear commitment to progressive dividend policy

Dividend per share

4.00



Key facts 2021

- Dividend of €3.40 per share, an increase of 10 euro cents
- In total, we paid out €3.1 billion, which was fully covered by our free cash flow of €3 7 billion
- Dividend yield of 5.5% based on the share price of €61.78 at year end 2021



BASF Capital Market Story

We have consistently refocused our portfolio toward innovative growth businesses¹

Acquisitions

- Functional crop care
- Personal care and food ingredients
- Omega-3 fatty acids
- Enzymes
- Battery materials
- Specialty plastics
- Refinish coatings
- Surface treatment
- Seeds and crop protection
- Polyamide business

~€9.5 billion sales in emerging and innovation-driven businesses



BASF core business Selected transactions 2010-today



Divestitures

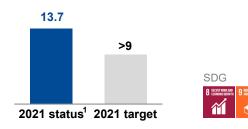
- Styrenics
- Fertilizers
- Natural gas trading and storage
- Custom synthesis business
- Textile chemicals
- Polyolefin catalysts
- Industrial coatings
- Leather chemicals
- Water and paper chemicals
- Oil & gas
- Construction chemicals
- Pigments business

~€29.9 billion sales in businesses with decreased differentiation potential



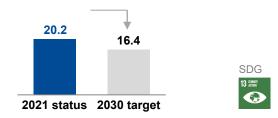
BASF Group: Targets and target achievement 2021 (I/II)

Profitable growth

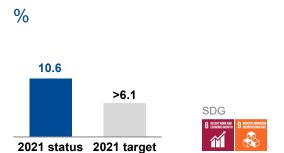


Achieve a return on capital employed (ROCE) considerably above the cost of capital percentage every year

Effective climate protection Million metric tons

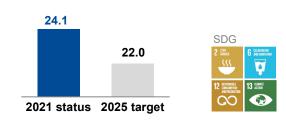


Reduce our absolute CO₂ emissions² by 25% by 2030 (development of carbon emissions compared with baseline 2018)

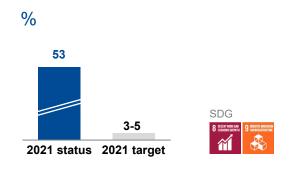


Grow sales volumes faster than global chemical production every year

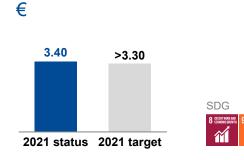
Sustainable product portfolio Billion €



Achieve €22 billion in Accelerator sales by 2025³



Increase EBITDA before special items by 3% to 5% per year



Increase the dividend per share every year based on a strong free cash flow

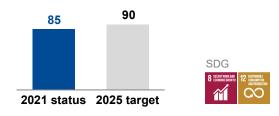
- ¹ BASF's ethylene value chain was reorganized as of January 1, 2022. In this connection, the polyolefins and styrenics businesses of the joint venture BASF-YPC Company Ltd., Nanjing, China, which were previously reported under Other, were allocated to the Petrochemicals division. The prior-year figures have been adjusted. The operating assets were also reallocated as part of the reorganization and increased the Chemicals segment's assets by €114 million as of December 31, 2021. Overall, the adjustments improved the BASF Group's ROCE for 2021 by 0.2 percentage points to 13.7%.
- ² Includes Scope 1 and Scope 2 emissions. In March 2021, we replaced our previous target of CO₂-neutral growth until 2030 (baseline 2018: 21.9 million metric tons of CO₂e) with a new, more ambitious climate protection target to reduce absolute CO₂ emissions by 25% compared with 2018 (new target: 16.4 million metric tons of CO₂e).
- ³ We already reached our 2025 sales target for Accelerator products in 2021. Consequently, we will update our product portfolio steering target over the course of 2022.





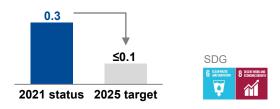
BASF Group: Targets and target achievement 2021 (II/II)

Responsible procurement

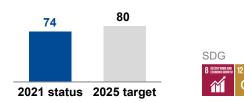


Cover 90% of our relevant spend with sustainability evaluations by 2025

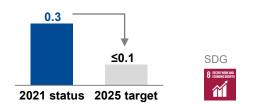
Resource efficiency and safe production



Reduce worldwide process safety incidents per 200,000 working hours to **≤ 0.1** by 2025

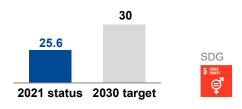


Have 80% of our suppliers improve their sustainability performance upon reevaluation

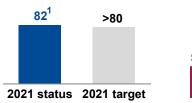


Reduce the worldwide lost-time injury rate per 200,000 working hours to ≤ 0.1 by 2025

Employee engagement and diversity



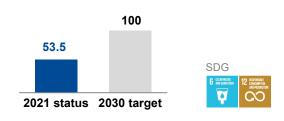
Increase the proportion of women in leadership positions with disciplinary responsibility to 30% by 2030



SDG

More than 80% of our employees feel that at BASF, they can thrive and perform at their best

%



Introduce sustainable water management at our production sites in water stress areas and at our Verbund sites by 2030

¹ We regularly calculate the employee engagement level. The most recent survey was conducted in 2020. The next survey is planned for spring 2022.





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Unique position to capture growth in Asia

Battery materials driving electromobility and future growth



Moderate demand growth in key customer industries in Q3 2022

Chemicals and plastics

 Global production hardly growing; decline in Europe due to high energy costs; growth in the U.S. and China



Health and nutrition

 Food production dampened by high energy costs and weaker global demand; pharma stable



Transportation

 Global production strongly above last year; recovery in China; base effects in North America and the E.U.



Electronics

 Softening demand in consumer electronics; industrial demand solid: supply chain pressure easing



Agriculture

 Solid demand environment; yields impacted by dry weather in several regions



Energy and resources

- Oil production above prior year; natural gas production declining
- Moderate growth in mining, excluding oil and gas



Consumer goods

- Solid demand for consumables (care)
- Negative impact of high inflation on durable consumer goods



Construction

- Negative impact of increasing interest rates in North America and Europe
- In China, ongoing weakness of residential construction

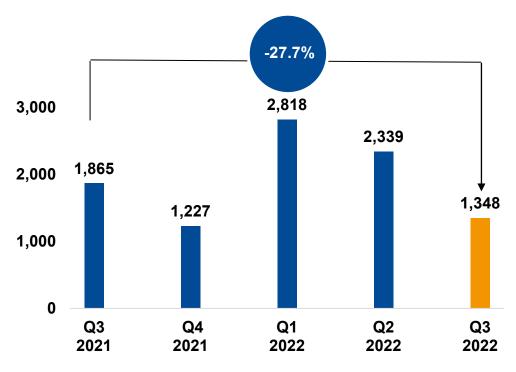




Q3 2022: BASF achieved solid EBIT before special items despite continued high raw materials and energy prices

- In Q3 2022, EBIT before special items declined by €0.5 billion and amounted to €1.3 billion; additional costs for natural gas in Europe are one major reason for this decline
- BASF's downstream segments considerably improved earnings, mainly due to higher prices
- As forecasted, earnings of upstream segments declined considerably from very high levels

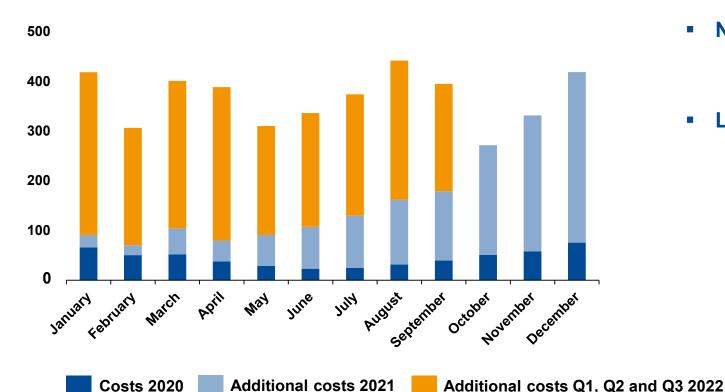
EBIT before special items Million €





Natural gas prices in Europe increased further compared with already elevated levels in Q3 2021

Incremental natural gas spend in Europe Million €



Natural gas price burden for European BASF sites

- Additional costs of ~€2.2 billion in first nine months of 2022 compared with the same period of 2021
- Ludwigshafen site
 - Largest gas consumer in BASF (2021: ~37 TWh)
 - Half of the natural gas is used for producing electricity and steam, the other half as raw material
 - Technical optimization projects initiated
 - Partial substitution of natural gas by fuel oil in the power plants



BASF takes decisive action with focus on Europe and Germany in particular

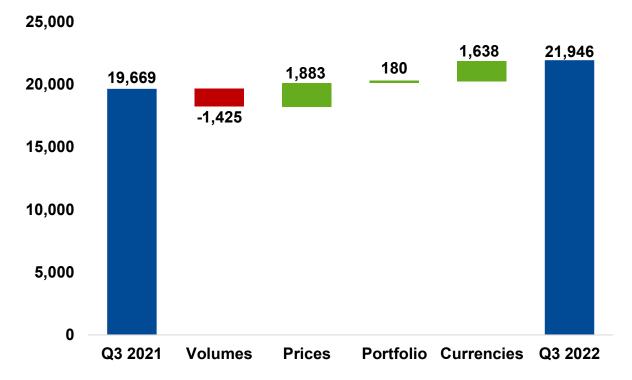
The significantly weaker earnings in Europe, especially in Germany, as well as the deteriorating framework conditions in the region make permanent cost reduction and structural adjustments necessary.

- **Cost savings program** in non-production areas focusing on Europe and Germany in particular
 - Implementation starts immediately and should be completed by the end of 2024
 - Employee representatives are involved in the relevant bodies
 - When completed, the program is expected to generate annual cost savings of €500 million
 - Streamlining of operating, service and research & development divisions as well as the corporate center
- Further structural measures to adjust BASF's production Verbund in Europe in the medium and long term are necessary
 - Detailed analysis of value chains ongoing
 - Measures will be communicated in the first quarter of 2023



Q3 2022: Sales increase mainly driven by higher prices and positive currency effects

Sales bridge Q3 2022 vs. Q3 2021 Million €



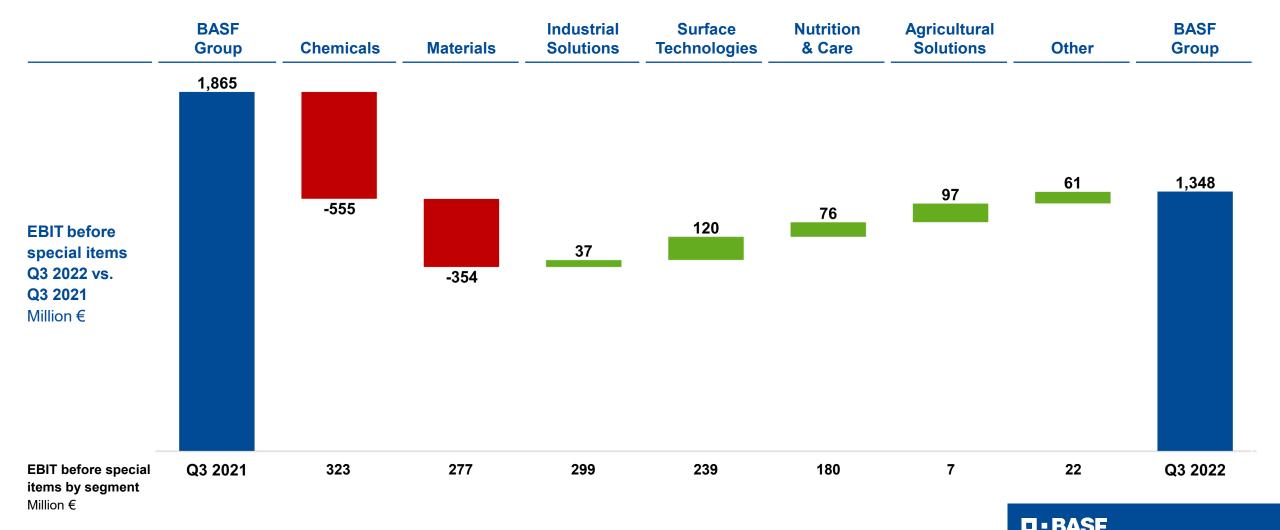
- Sales increased by 11.6% to €21,946 million
- **Volumes** declined by 7.2%
 - Agricultural Solutions increased volumes, all other segments recorded lower volumes
- **Prices** increased by 9.6%
 - All divisions increased prices, except for Catalysts due to lower precious metal prices
- Portfolio effects of plus 0.9% were related to BASF Shanshan Battery Materials
- **Currency** effects of 8.3% were mainly from the U.S. dollar

Sales development

Q3 2022 vs. Q3 2021 **\(\sigma\)** -7.2% **1** 9.6% **1** 0.9% **1** 8.3%



Q3 2022: BASF's downstream segments considerably improved earnings, while earnings in upstream segments declined considerably



BASF Group Q3 2022 and Q1–Q3 2022: Financial figures

Q3 2022	Change	Q1–Q3 2022	Change
Million €	%	Million €	%
21,946	11.6	68,003	15.6
2,325	-16.1	9,361	2.1
2,255	-17.4	9,359	2.8
1,348	-27.7	6,505	-0.6
1,294	-29.0	6,429	-0.3
102	18.1	-262	
909	-27.5	4,220	-8.8
	Million € 21,946 2,325 2,255 1,348 1,294 102	Million € % 21,946 11.6 2,325 -16.1 2,255 -17.4 1,348 -27.7 1,294 -29.0 102 18.1	Million € % Million € 21,946 11.6 68,003 2,325 -16.1 9,361 2,255 -17.4 9,359 1,348 -27.7 6,505 1,294 -29.0 6,429 102 18.1 -262



Cash flow development in Q3 2022 and Q1–Q3 2022

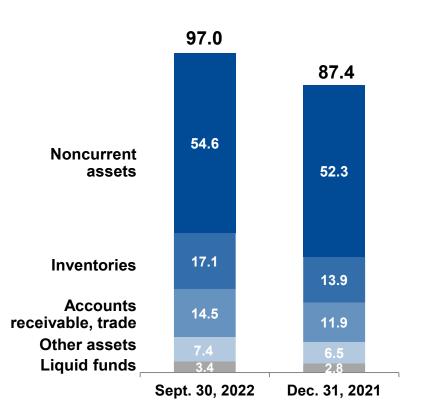
	Q3 2022	Q3 2021	Q1-Q3 2022	Q1-Q3 2021
	Million €	Million €	Million €	Million €
Cash flows from operating activities	2,301	1,896	3,239	3,908
of which Changes in net working capital ¹	670	-44	-4,172	-2,808
Miscellaneous items	-238	-220	261	-564
Cash flows from investing activities	-680	-1,818	-1,899	-1,930
of which Payments made for property, plant and equipment and intangible assets	-1,006	-819	-2,501	-2,042
Acquisitions / divestitures	222	-627	601	491
Cash flows from financing activities	-2,188	-56	-889	-3,490
of which Changes in financial and similar liabilities	-1,938	53	3,627	-229
Dividends	-16	-109	-3,208	-3,261
Free cash flow	1,295	1,077	738	1,866

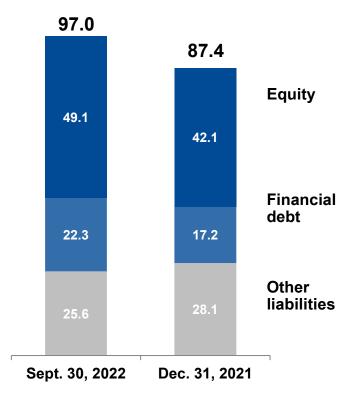
¹ In order to optimize precious metal stocks, the Group sells precious metals and concurrently enters into agreements to repurchase them at a set price. The cash flows resulting from the sale and repurchase are reported in cash flows from operating activities. Liabilities to repurchase precious metals amounted to €734 million as of September 30, 2022.



Strong balance sheet

Balance sheet September 30, 2022, vs. December 31, 2021 Billion €





- **Total assets** increased by €9.6 billion to €97.0 billion
- **Noncurrent assets** amounted to €54.6 billion, an increase of €2.3 billion
- Current assets increased by €7.4 billion to €42.4 billion, mainly due to higher inventories and increased trade accounts receivable
- **Net debt** increased by €4.6 billion to €18.9 billion
- Equity ratio: 50.6%

(December 31, 2021: 48.2%)

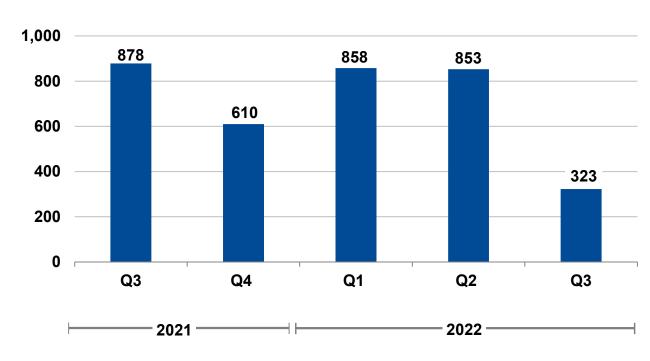


Chemicals

Sales Q3 2022 vs. Q3 2021 million €



EBIT before special items¹ million €



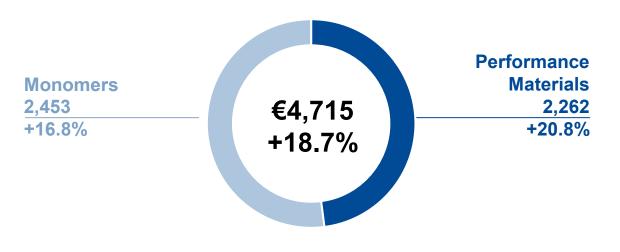
Sales development	Volumes	Prices	Portfolio	Currencies
Q3 2022 vs. Q3 2021	↓ -12.4%	↑ 8.7%	↓ -0.1%	↑ 6.6%

¹ BASF's ethylene value chain was reorganized as of January 1, 2022. In this connection, the polyolefins and styrenics businesses of the joint venture BASF-YPC Company Ltd., Nanjing, China, which were previously reported under Other, were allocated to the Petrochemicals division. The prior-year figures have been adjusted.

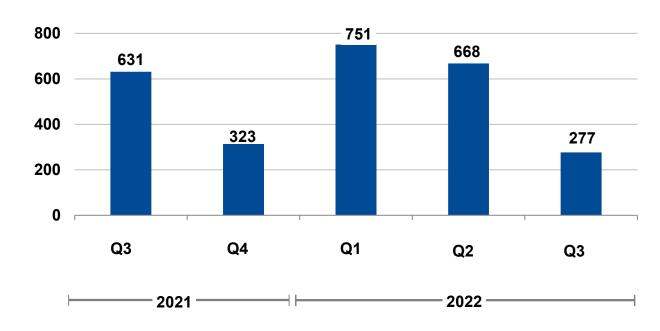


Materials

Sales Q3 2022 vs. Q3 2021 million €



EBIT before special items million €

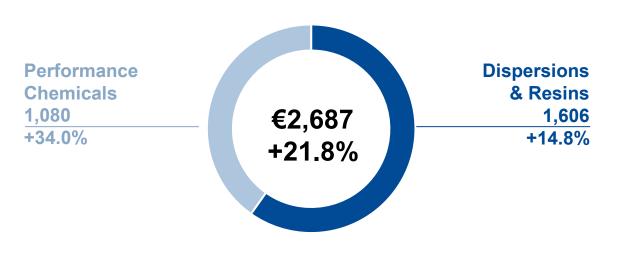


Sales development	Volumes	Prices	Portfolio	Currencies
Q3 2022 vs. Q3 2021	↓ -8.9%	↑ 19.9%	↓ -0.1%	↑ 7.8%

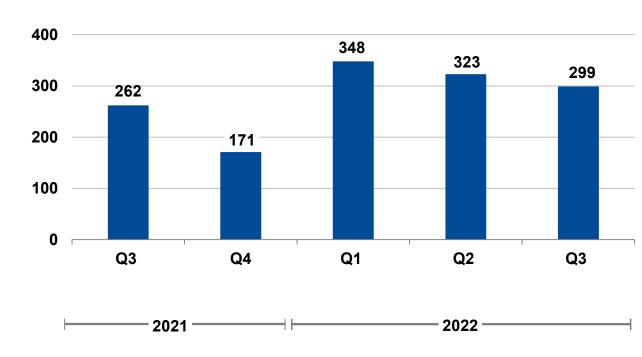


Industrial Solutions

Sales Q3 2022 vs. Q3 2021 million €



EBIT before special items million €



Sales development	Volumes	Prices	Portfolio	Currencies
Q3 2022 vs. Q3 2021	↓ -4.4%	↑ 17.4%	↓ -0.1%	↑ 8.9%

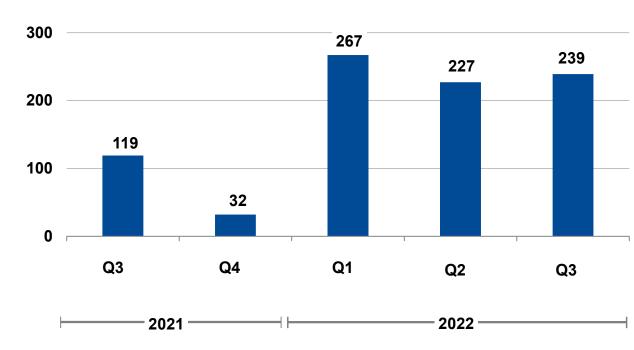


Surface Technologies

Sales Q3 2022 vs. Q3 2021 million €



EBIT before special items million €



Sales development	Volumes	Prices	Portfolio	Currencies
Q3 2022 vs. Q3 2021	↓ -8.7%	↓ -8.8%	↑ 3.7%	↑ 8.5%

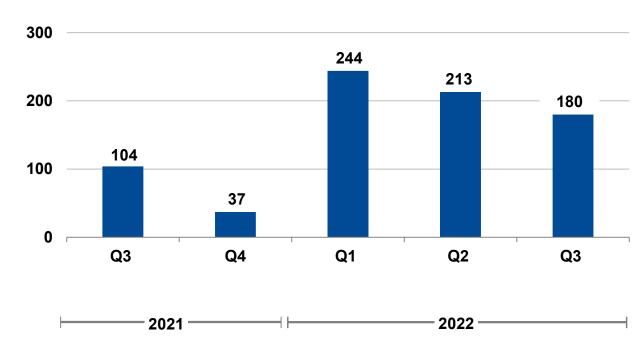


Nutrition & Care

Sales Q3 2022 vs. Q3 2021 million €



EBIT before special items million €



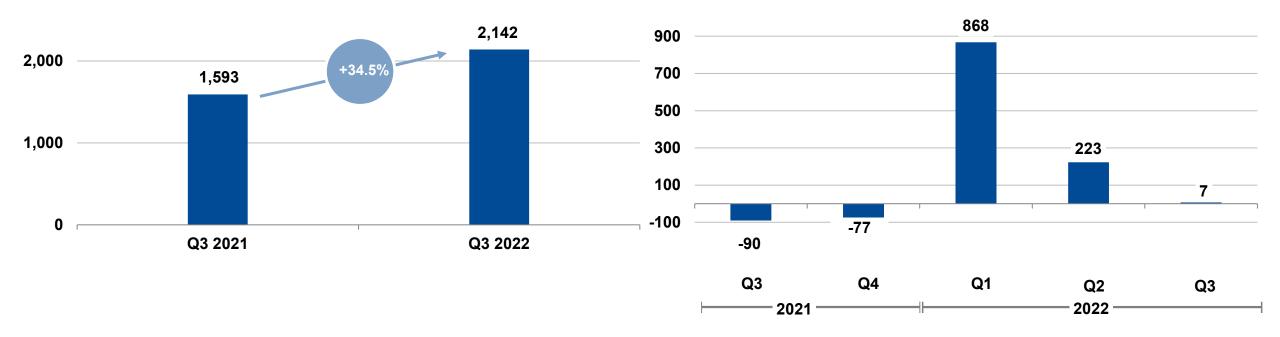
Sales development	Volumes	Prices	Portfolio	Currencies
Q3 2022 vs. Q3 2021	↓ -1.1%	↑ 27.5%	↓ -0.2%	↑ 6.7%



Agricultural Solutions

Sales Q3 2022 vs. Q3 2021 million €

EBIT before special items million €



Sales development	Volumes	Prices	Portfolio	Currencies
Q3 2022 vs. Q3 2021	1 4.6%	1 6.9%	↓ -0.8%	↑ 13.7%



Review of "Other"

Financial figures		Q3 2022	Q3 2021
		Million €	Million €
Sales		1,153	976
EBIT befo	re special items¹	22	-39
of which	Costs of corporate research	-73	-76
	Costs of corporate headquarters	-65	-65
	Foreign currency results, hedging and other measurement effects	38	-41
	Other businesses	7	15
Special ite	ms	-5	-31
EBIT ¹		17	-68



¹ BASF's ethylene value chain was reorganized as of January 1, 2022. In this connection, the polyolefins and styrenics businesses of the joint venture BASF-YPC Company Ltd., Nanjing, China, which were previously reported under Other, were allocated to the Petrochemicals division. The prior-year figures have been adjusted.

Outlook 2022 for BASF Group

Outlook 2022	
Sales	€86 billion – €89 billion
EBIT before special items	€6.8 billion – €7.2 billion
ROCE	10.5% – 11.0%
CO ₂ emissions	18.4 – 19.4 million metric tons

Underlying assumptions (previous assumptions in parentheses)

• Growth in gross domestic product: +2.5% (unchanged)

• Growth in industrial production: +2.5% (+3.0%)

+2.0% (+2.5%) • Growth in chemical production:

\$1.05 per euro (\$1.07 per euro) Average euro/dollar exchange rate:

Average annual oil price (Brent crude): \$100 per barrel (\$110 per barrel)





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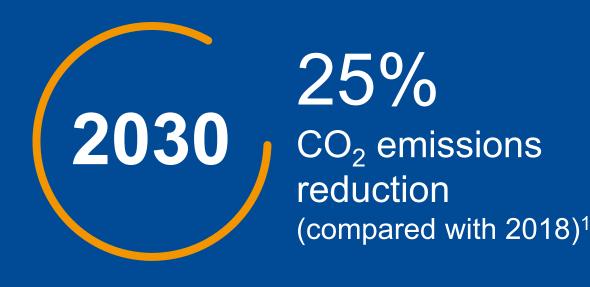
Pushing the transition to a sustainable economy

Unique position to capture growth in Asia

Battery materials driving electromobility and future growth



Our commitments to reaching the Paris Climate Agreement





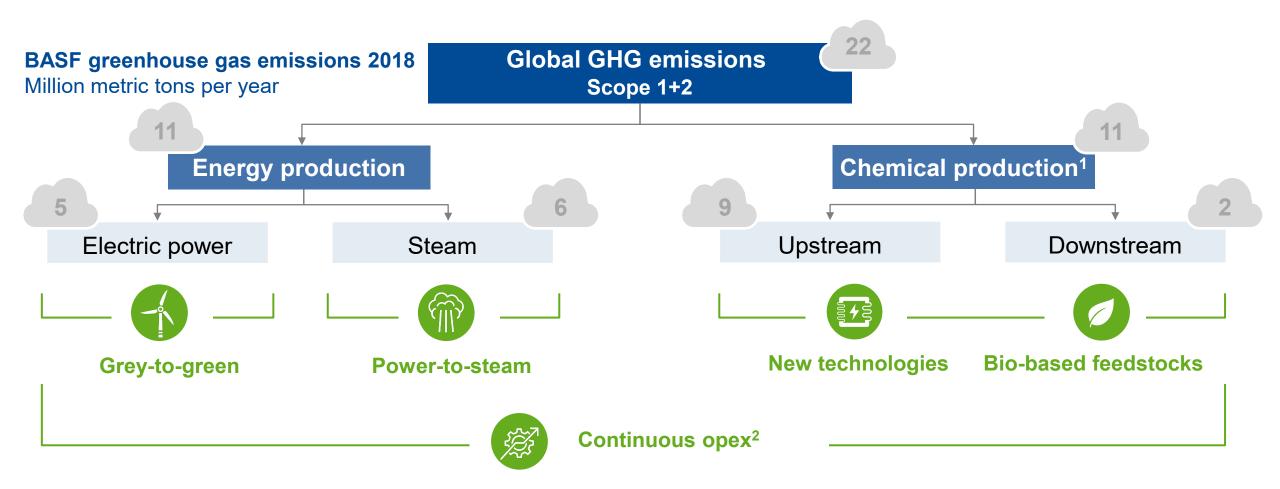
Our two perspectives on emission reductions

Reduction Scope 1 Scope 2 measures at **BASF Group targets** site level CO_2 **Products Product carbon** with Scope 1 Scope 3¹ Scope 2 footprint (PCF) reduced PCF kg CO₂e



per kg

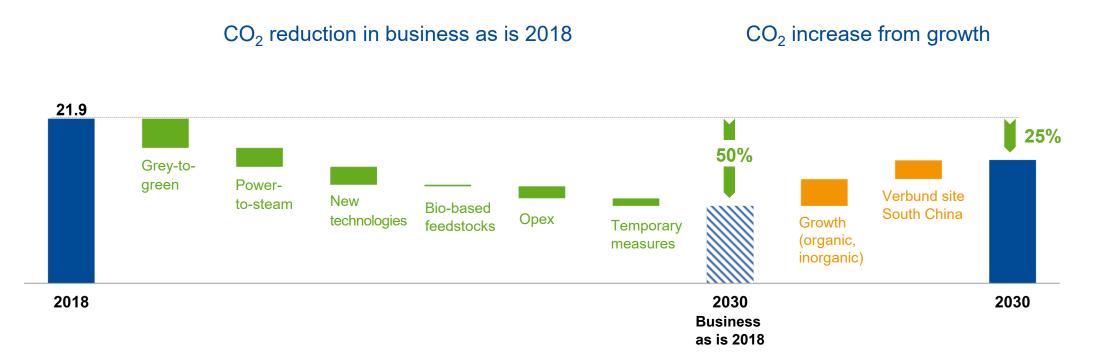
No downstream decarbonization without upstream decarbonization





Our path to reduce BASF emissions from 2018 to 2030

BASF greenhouse gas emissions (Scope 1 and Scope 2) 2018–2030 Million metric tons

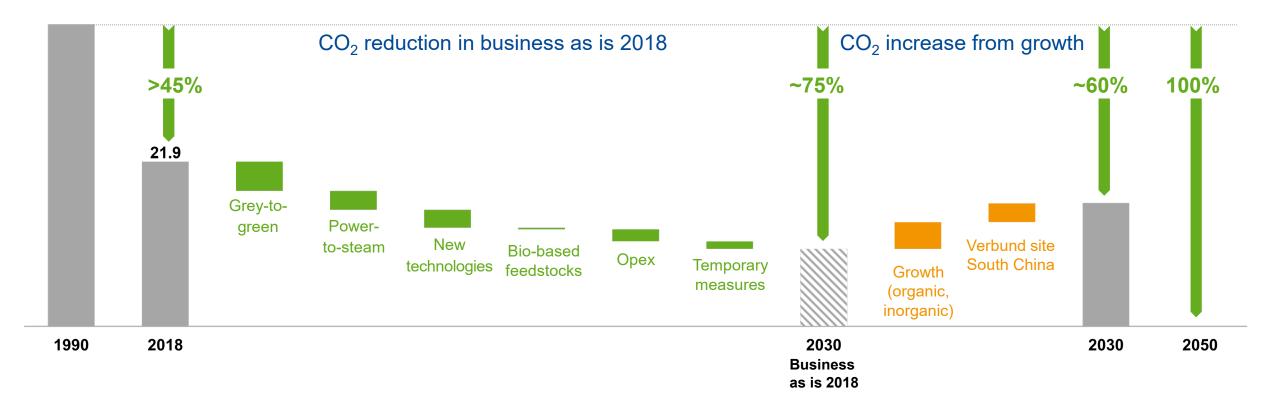




Our path to reduce BASF emissions from 1990 to 2050

BASF greenhouse gas emissions (Scope 1 and Scope 2) 1990–2050

Million metric tons

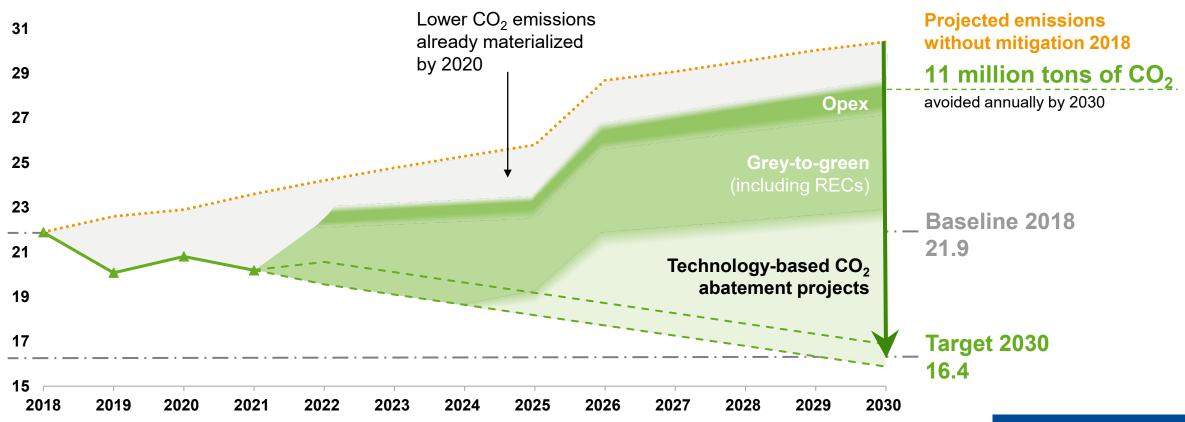




Our roadmap is backed by robust calculations and solid planning

Projected BASF greenhouse gas emissions

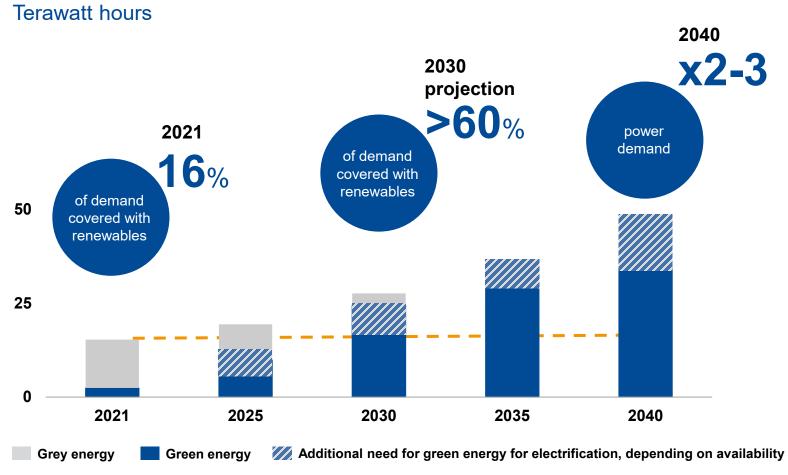
Million metric tons CO₂ equivalents





Switching our power to renewable energy will be the main driver of emission reduction until 2025

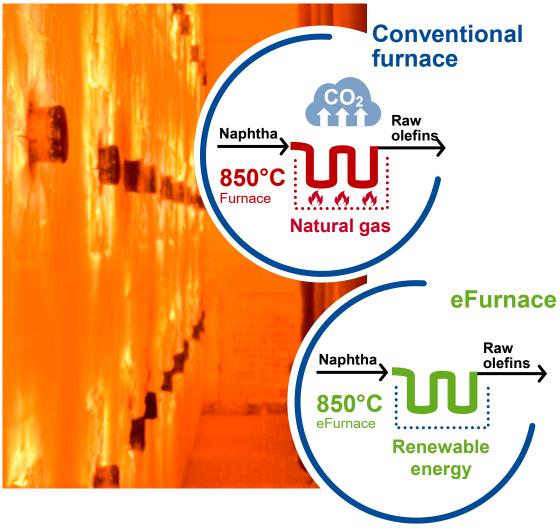
BASF global power demand and renewable supply projection



- BASF strives for 100% of power demand 2021 to be green by 2030
- BASF power consumption expected to increase strongly due to electrification on our journey to net zero
- BASF pursues a make-and-buy strategy to secure access to renewable power
- Early investments in renewable power assets expected to offer advantageous economics in the future



Construction started on world's first demonstration plant for large-scale electrically heated steam cracker furnaces



- Construction of demonstration plant started at Ludwigshafen Verbund site in cooperation with SABIC and Linde
- Funding granted by German Federal Ministry for Economic Affairs and Climate Action
- **Startup** of the demonstration plant **planned** for 2023

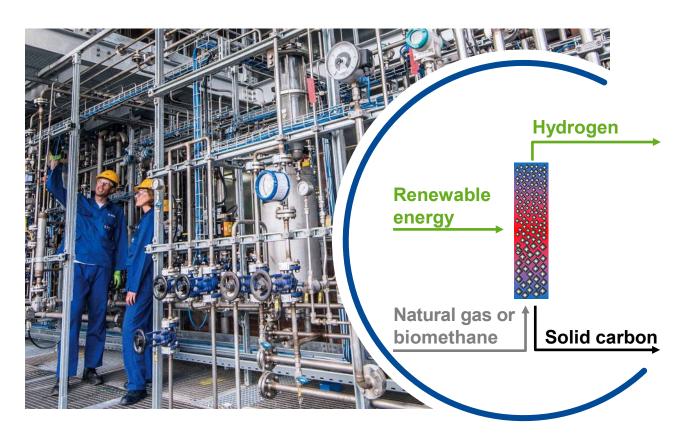
Supported by:



on the basis of a decision by the German Bundestag



Methane pyrolysis combines low emissions with low energy demand



- Methane pyrolysis requires around 80% less **electricity** than water electrolysis
- Funding for pilot reactor was granted by German Federal Ministry of Education and Research¹
- Milestone achieved: Pilot reactor at the Ludwigshafen site started successfully in Q2 2021
- Start-up of first commercial plant projected before 2030





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



Scope 1 + 2

Emissions caused by own operations¹



- TÜV-certified²
- Meets ISO standards³
- Calculates product carbon footprints cradle-to-gate



Product carbon footprints of sales products

Customer benefits

- Transparency on CO₂ emissions
- Identification of main reduction levers
- Certified software
- Transparent documentation

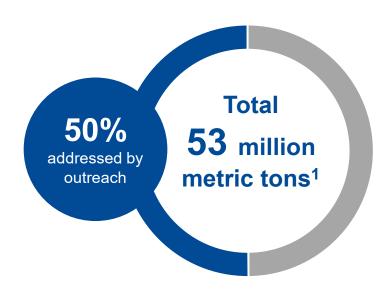
¹ Energy generation and chemical processes

³ ISO 14040:2006, 14044:2006, 14067:2018, GHG Protocol Product Standard

BASE

We create transparency on the CO₂ emissions of our raw materials as an important step in reducing BASF's Scope 3 emissions

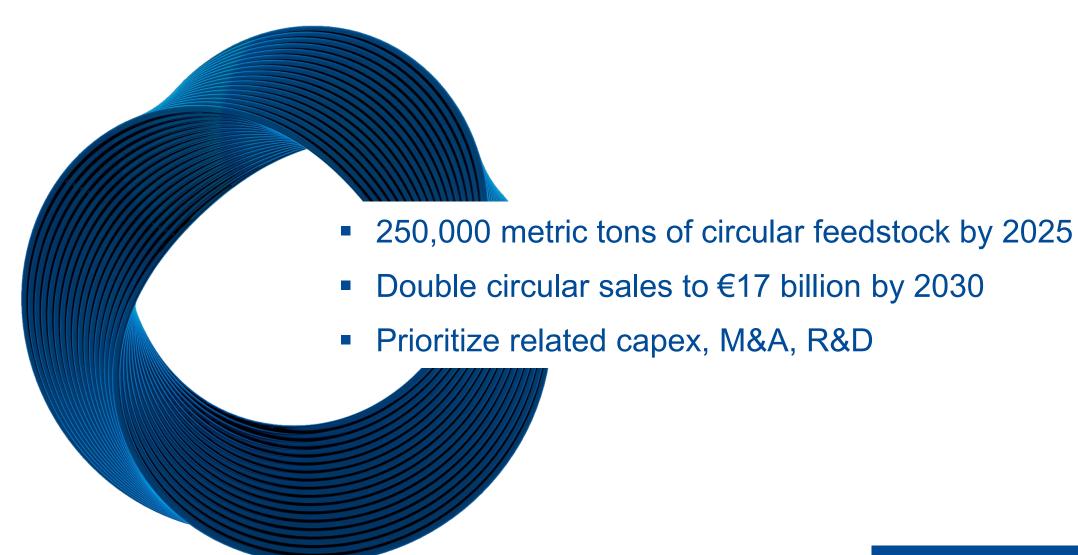
BASF's CO₂e emissions from raw material purchase 2021



- BASF is supporting various initiatives to develop and establish workable standards for the chemical industry
- **Supplier CO₂ Management Program rolled-out** in 2021 to collect specific PCFs and align on reduction targets
- More than **700 key suppliers** have been approached by the end of 2021, accounting for 50% of Scope 3 emissions¹
- Collaboration through knowledge sharing on PCF calculation methodology ongoing to ensure engagement and quality of data
- First suppliers have **committed to reducing** their emissions
- BASF will make PCFs a buying criterion to ensure PCF reduction of its sales products



BASF's Circular Economy Program: Targets



From a linear to a more circular economy - BASF contribution: ChemCycling™

Close the loop

Plastic waste and end-of-life tires are converted into liquid feedstock and fed into BASF's value chains

ChemCycling[™]

- + can handle mixed plastic waste
- + produces virgingrade materials
- + replaces virgin fossil resources
- + CO₂ emissions prevented¹

- Investments in Quantafuel (pyrolysis of mixed plastic waste) and Pyrum (pyrolysis of end-of-life tires); uptake supply agreements with both companies
- Agreement with **New Energy** for uptake of pyrolysis oil derived from end-of-life tires and for a joint feasibility study for adaption of technology to other plastic waste streams
- Agreement with **ARCUS** on uptake of pyrolysis oil from mixed plastic waste

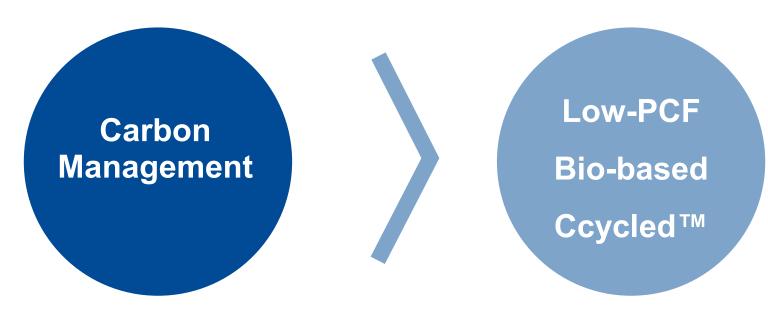
Linear economy

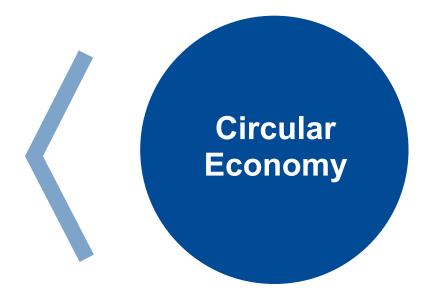
Mechanical recycling

Incineration Landfill Littering



Transformation requires a broad technology portfolio





CO₂ avoidance potential per megawatt hour of electrical energy used (metric tons of CO₂/MWh)

Methane	pyrolysis	~0.9
IVICTIATIO		0.0

Heat pumps	~0.6-1.0
neat pumps	~0.0-1.0

eDrive NH₃ ~0.7

eFurnace ~0.2

~0.2 Water electrolysis

Target: We aim at doubling our circular sales to reach €17 billion by 2030

Focus on closing the loops

- Renewable-based feedstocks
- Recycled-based feedstocks
- Enable recyclability and/or biodegradability



€24.1 billion of BASF Group sales from sustainable solutions leveraging our innovation power



- Portfolio segmentation: >56,000 specific product applications analyzed by end of 2021 (€71 billion in sales, 98.7% of relevant portfolio¹)
- Accelerator margins on average ~6 percentage points above the rest of assessed portfolio
- We will stop selling Challenged products within maximum five years after classification
- Target of achieving €22 billion of sales with Accelerator products by 2025 achieved in 2021; portfolio steering target to be adjusted in the course of 2022



Innovations for a sustainable future – Accelerator examples















BASF in sustainability ratings and rankings

MSCI ESG Research

In 2022, BASF was rated A. The analysts highlighted that BASF is present in clean tech markets and has a robust carbon mitigation strategy.

CDP Disclosure Leadership

In 2021, BASF achieved a score of A- in all categories we are participating in: "Climate," "Water" and "Forest," thus attaining leadership status again.

Sustainalytics

BASF belongs to the best category for "diversified chemicals" with a medium ESG risk and was recognized for its strong risk management, e.g., in the areas of CO₂, emissions, wastewater and waste as well as occupational health and safety.

FTSE4Good Global Index

BASF was again included in the FTSE4Good Global Index in 2022 and is top class in terms of ESG among chemical companies included in the index.

ISS ESG

In 2022, BASF held its Prime Status (B-), being among the top 7%.













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Pushing the transition to a sustainable economy

Unique position to capture growth in Asia

Battery materials driving electromobility and future growth

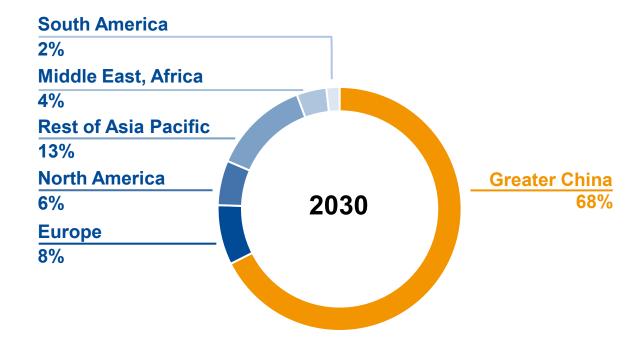


China is the major growth driver for global chemical production: Two-thirds of growth will come from Greater China by 2030

Real chemical production¹ trillion US\$ 6.0 5.6 **CAGR** 0.2 3.0% 5.0 0.8 4.2 0.1 -0.6 0.2 4.0 **South America** 0.6 Middle East, Africa 0.8 0.5 3.0 Rest of Asia Pacific 0.7 North America 2.0 Europe

Greater China

Share of absolute chemical production growth by region





3.0

2030

1.0

0.0

2.1

2021

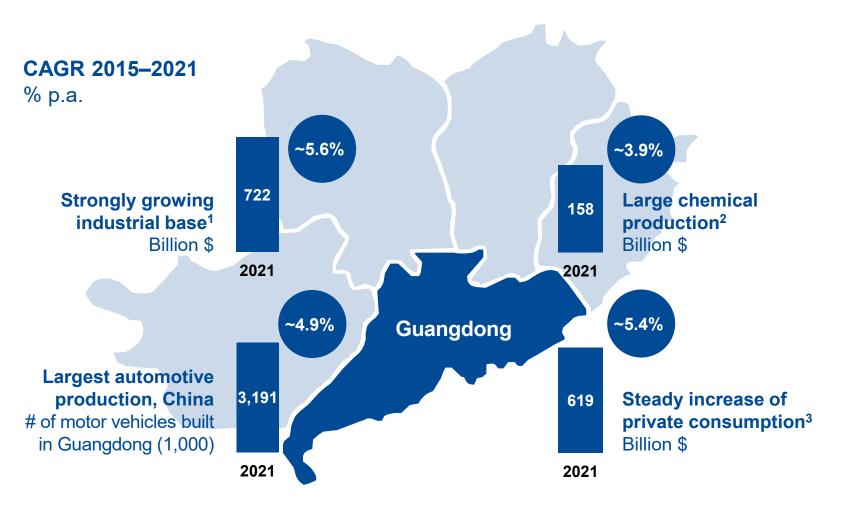
BASF's Verbund site in Nanjing is a prime example of our success in China



- **50:50 joint venture with Sinopec** founded in 2000, start-up in 2005, major expansions in 2011 and 2014
- Scope has **continuously expanded** over the years toward longer and more diversified value chains
- Third-largest BASF site, US\$5.8 billion gross investment (100%)
- Capacity: ~3 million metric tons per year; 33 production plants including steam cracker
- Strong focus on operational excellence and consistent plant maintenance resulted in best-in-class asset effectiveness
- With **26% EBITDA margin**¹ BASF-YPC is one of the most profitable BASF sites



Guangdong is home to key customers from fast-growing industries



Market characteristics

- Over 126 2 million residents in Guangdong province (2020)⁴
- GDP Guangdong (2021): ~\$1.9 trillion (exceeding South Korea)
- GDP growth from 2021–2036: 5–6% p.a.
- Key customer industries: transportation, consumer goods, home and personal care, electronics
- Chemical products are generally undersupplied from local production



Real secondary industry output, 2015-based. Guangdong Bureau of Statistics

² Real chemical gross output, 2015-based, inferred by gross output/value added ratio for China

³ Real private consumption, 2015-based. National Bureau of Statistics with IHS forecast

⁴ Guangdong Statistical Yearbook 2021

Location in Zhanjiang enables BASF to capture long-term profitable growth in the fastest growing chemical market worldwide



- **Customers:** Proximity to the economic centers of China's fastest growing province Guangdong; shortest sea routes to Southeast Asia
- **Excellence in production:** Integrated Verbund platform, cutting edge technologies, smart solutions, deep seaport, world-class logistics
- Developing downstream value chains: BASF will focus on products that are in high demand, with options for further expansion
- **Differentiating from competitors beyond products:** Front-runner position in sustainability and circular economy
- Leveraging industry ecosystems: BASF will benefit from collaborations with neighbors and government incentives
- Foreign trade advantages: Guangdong province intends to set up Donghai Island as a free trade zone



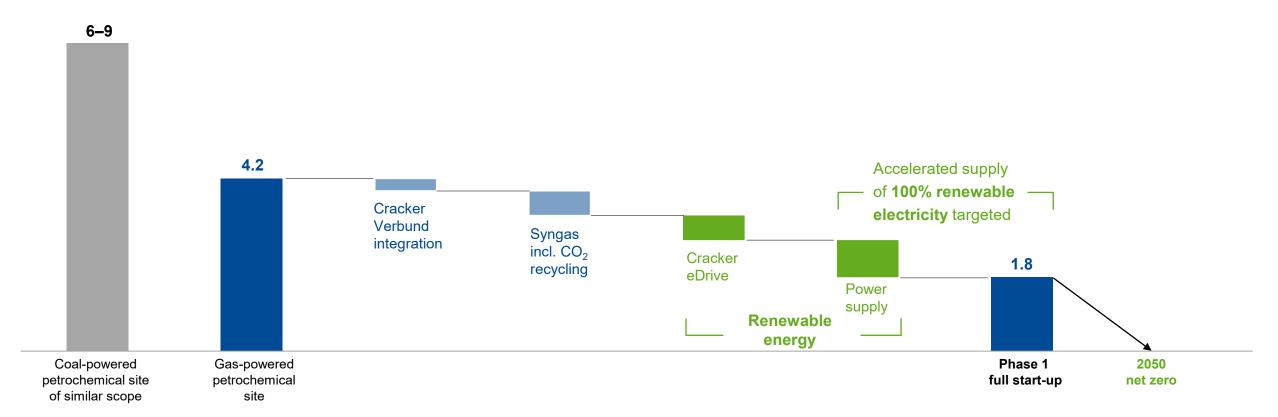
Main construction phases of the new Verbund site in Zhanjiang, China – stepwise approach

Phase 1 Phase 2 **Update on progress Initial phase** start-up: as of 2025 start-up: as of 2028 on stream: 2022-2023 First downstream plant started up in August 2022 Heart of the Verbund: **Verbund expansion** First downstream plants: Construction of phase 1 plants and diversification Performance Materials for auto-Petrochemicals plus further started following final approval downstream plants motive and consumer industries Stepwise construction approach C2 value chain **Engineering plastics** allows for flexibility, especially Steam **Additional** and thermoplastic C3 value chain with regard to phase 2 cracker downstream plants polyurethanes C4 value chain Backward integrated into world-scale upstream plants to achieve Verbund synergies in downstream value chains **D-BASE**

58 December 2022 | BASF Capital Market Story

Verbund site Zhanjiang uses latest technologies to reduce CO₂ footprint compared with standard gas-powered petrochemical site

Projected CO₂ emissions of BASF at Verbund site in South China Million metric tons





Key financials of BASF's new Verbund site in Zhanjiang

Projected key financials by 2030

€4.0-5.0 billion sales

€1.0–1.2 billion **EBITDA**

Up to €10 billion total capital expenditure (peak: 2023-2025)

- The greenfield character of the new Verbund site results in a higher share of infrastructure investments compared with a brownfield project
- Infrastructure investments will be diluted with future investments/expansions
- The new Verbund site will be BASF's key platform for long-term profitable and sustainable growth in China even beyond phase 1 and phase 2



BASF's new Verbund site in Zhanjiang: Key takeaways

China's macroeconomic environment is robust and develops toward more self-sufficiency and sustainability

Guangdong province is the economic growth engine of China and a powerhouse of BASF's key

customer industries

BASF is very well positioned to capture future growth in China by leveraging its unique Verbund know-how and longstanding relationships

BASF has a proven track record of strong top line and earnings growth in Greater China

The new Verbund site will be a **key** platform for long-term profitable and sustainable **growth** of **BASF Group**



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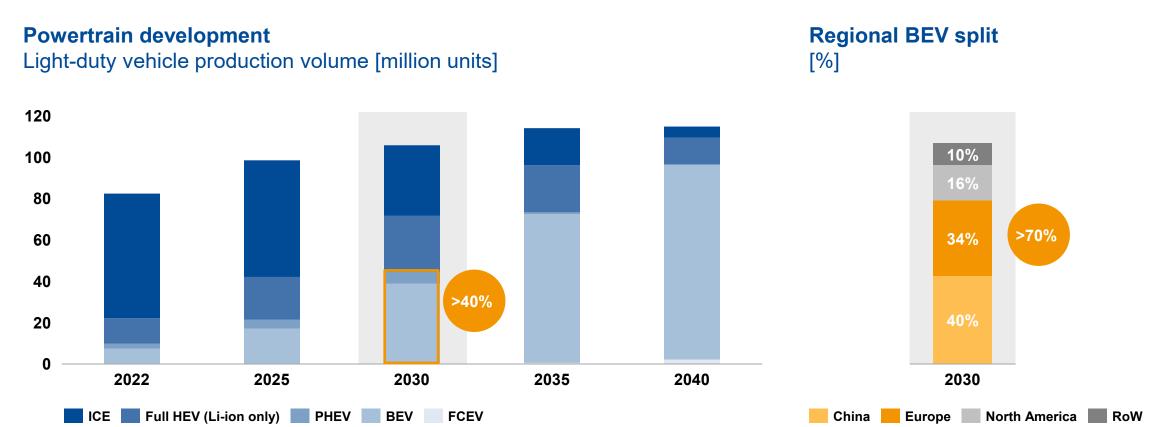
Pushing the transition to a sustainable economy

Unique position to capture growth in Asia

Battery materials driving electromobility and future growth



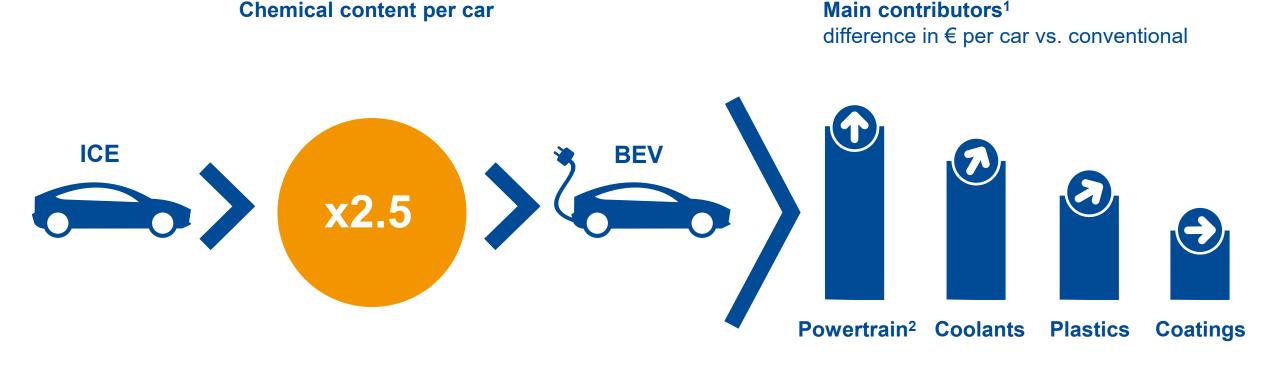
The automotive industry is in the middle of a major transformation towards electromobility



By 2030, we expect that >40% of all new cars will be BEVs and PHEVs with China and Europe representing >70% of global demand



The chemical content per car is higher in a BEV compared to ICE, with CAM as the single largest growth opportunity



The cathode active material (CAM) as key component of any battery cell more than doubles the chemical content which can be found in today's average ICE vehicle



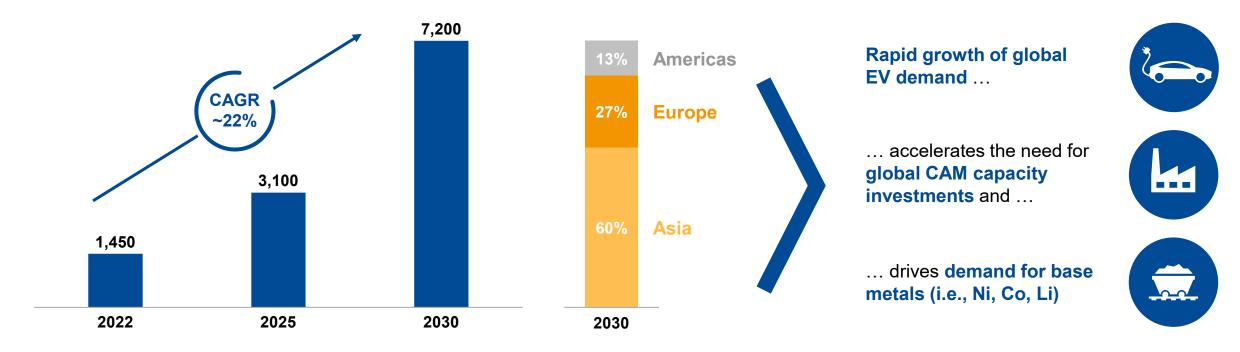
Main contributors¹

¹ Only representative for relative change in projected sales

² Emission catalyst vs. cathode active material (both incl. metals)

The market for CAM will grow by ~22% per year and reach a total size of 7,200 kt by 2030

Global CAM market forecast¹ kt



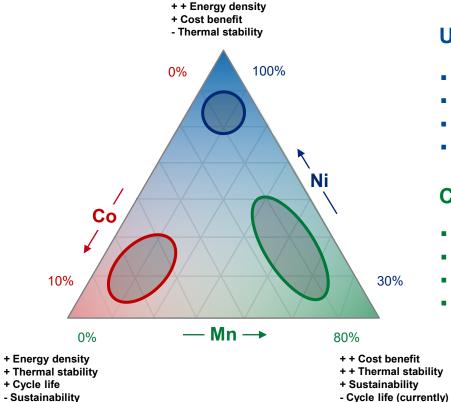
CAM market size expected to reach €150–200 billion by 2030, driven by battery performance, safety and cost aspects – which are all key parameters for BEVs



Product innovation enables the broadest CAM portfolio in the industry, and we continue to add new solutions

HED™ products

- High energy density NCA and NCM cathode materials
- Ni content ranging from 60% to >90%
- Already used in xEV applications today



Ultra-high Ni

- Ultra-high Ni CAM, ≥220 Ah/kg
- Ni >90%, Co <5%
- Up to stabilized LNO
- Pushing boundaries for high-performance applications

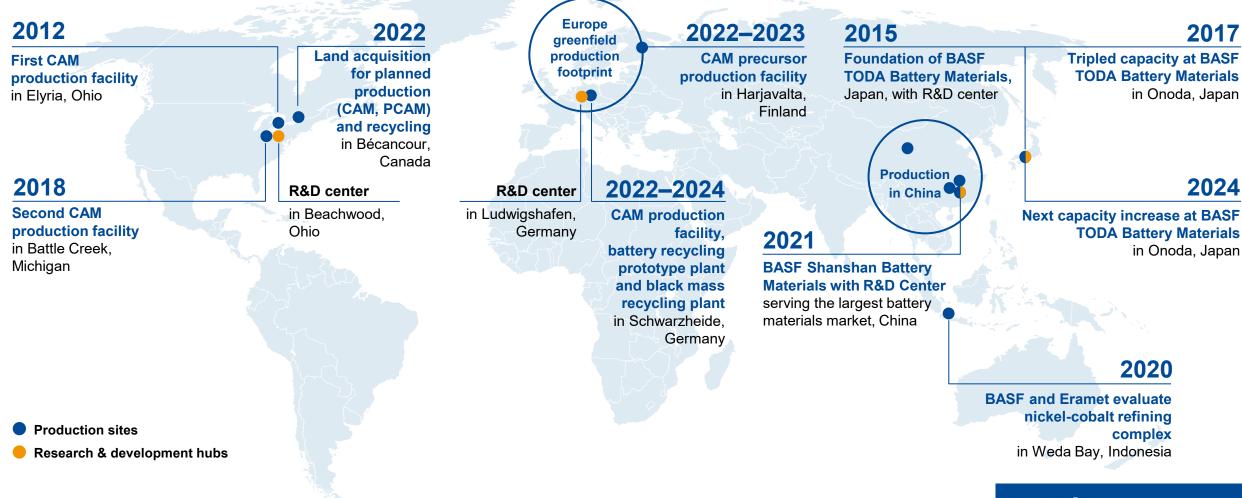
Co-free CAM

- Ni-rich NMx
- Over-lithiated Mn-rich, e.g., NCM-307
- Focus on lower cost and improved safety
- Candidate for mass market entry due to price advantage

Our technology toolbox offers customized solutions for all cell formats and provides a basis for innovations beyond classical lithium-ion batteries



BASF has production assets and R&D hubs in close proximity to the most important BEV markets in every region



The Battery Materials business will become a significant earnings contributor to the BASF Group

>€1.5 billion sales by 2023

>€7 billion sales by 2030

>10%

market share targeted

>30%

EBITDA bsi margin (excl. metals)

~€3.5–4.5 billion

capital expenditure 2022-2030

- Continue to ramp up existing sales of the CAM portfolio and secure further commercial outlets
- Build on customer proximity with our domestic production footprint to meet customer needs
- Realize new business opportunities and further cost reductions with continued product development
- Utilize our broad knowledge of the industry to support the ongoing transformation of the sector

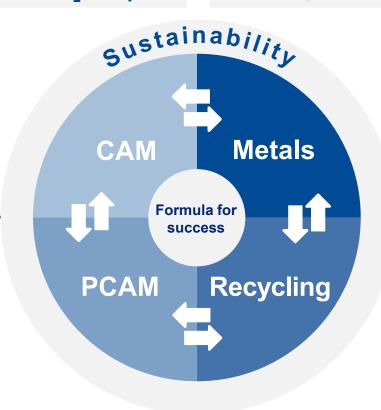


BASF Battery Materials: Key takeaways

- Best-in-class CO₂ footprint
- Closing the loop

- Broad CAM product offering
- Strong IP position
- Extensive R&D capabilities

- Unique expertise in PCAM chemistry
- Make-or-buy optionality with a global production footprint



- Domestic sourcing and production
- Secure and sustainable supply

- Recycling capabilities
- Most CO₂ competitive source for metals

Battery Materials business is set to become one of the key growth engines in BASF's portfolio, establishing a leading and profitable position



We create chemistry