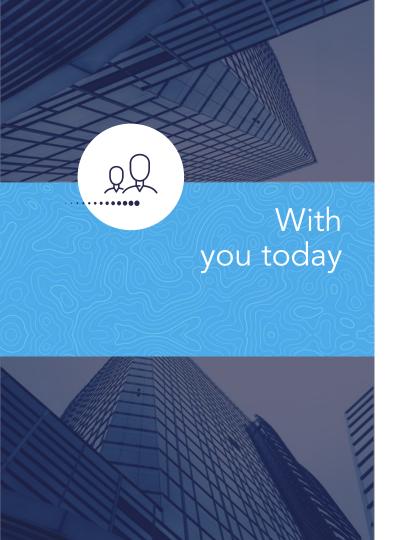




Soda Ash & Bicar Webinar

February 27, 2023







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CEO and President of the Executive Leadership
Team of Solvay



→ Philippe Kehren

President, Soda Ash & Derivatives



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Soda Ash Webinar

Essential chemicals company with strong cost and cash leadership enabling further growth







Investments
support the
future
company's
growth and
sustainability
ambitions



Soda Ash & Derivatives business key takeaways





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~€2.2bn business with strong fundamentals



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SODA ASH

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BICAR



Flat glass (construction, solar panels, automotive)



Container glass (food & beverages)



Water softener for detergents



Other applications incl. sodium silicates, lithium carbonate



Flue gas treatment, pharma, feed, food

Soda Ash & Derivatives financials

Net Sales

~€2.2bn

EBITDA CAGR 2013-2022

~5%

Cash conversion (EBITDA-CAPEX) / EBITDA

~66%

Organic sales CAGR 2022-2027F

~2-3% Soda Ash ~4-5% Bicar

Strong tailwinds from sustainable megatrends



MEGATRENDS



Sustainable & Efficient Resources



Renewable Energy



Evolving Demographics

MARKET TRENDS



- Architectural and sustainability trends (e.g., increasingly glazed areas, double/ triple glazing)
- Energy efficient production of glass (soda ash enabling lower melting temperature)



- Demand for solar panels
- Lithium mining for EV batteries and storage



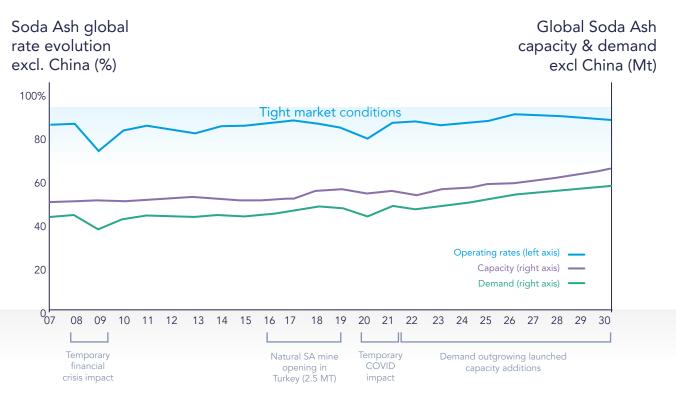
- Demand for sustainable packaging (e.g., reusable, recycling)
- Growth in food applications, following population growth



- Tighter control of air pollution
- Increasing global access to qualitative health services
- Increased focus on hygiene and product safety

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Highly resilient operating rates with stable demand growth





Key messages



Resilient demand throughout cycles



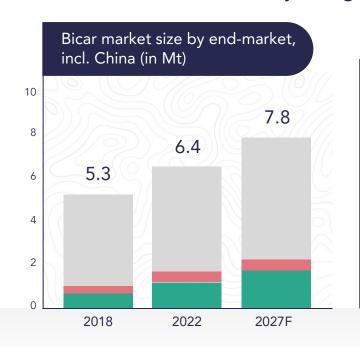
Long term stable operating rates and tight market conditions



Forward looking market tightening as demand outgrows announced capacity additions

We are strongly exposed to the highest growing Bicar segments

Market acceleration driven by flue gas treatment and healthcare



Healthcare



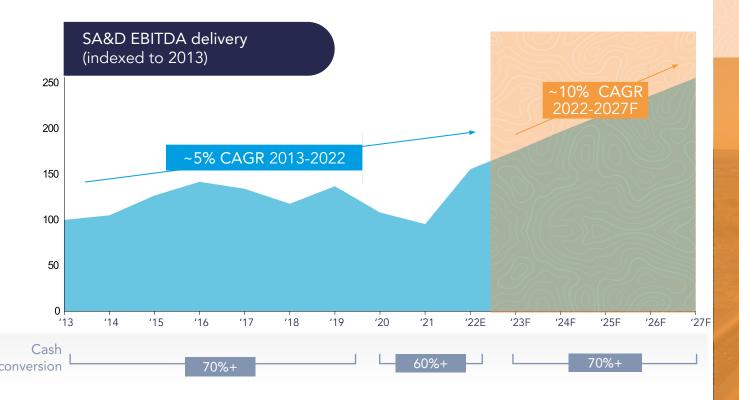


Source: Solvay internal data based on public information

Others

Flue gas treatment

EBITDA growth poised to double over the next five years





Key drivers of EBITDA growth

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Market tightening supporting pricing



Additional capacity investments for natural Soda Ash in US and Bicar



Continued excellence and cost reduction initiatives

Leadership position founded on scale, technology, cost, and unique position across the value chain

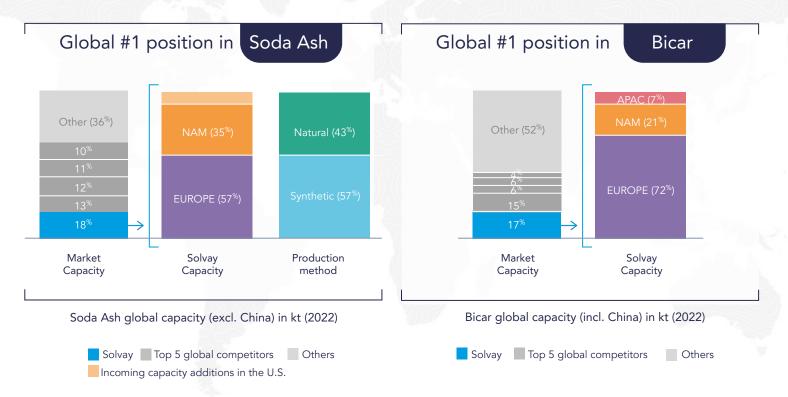




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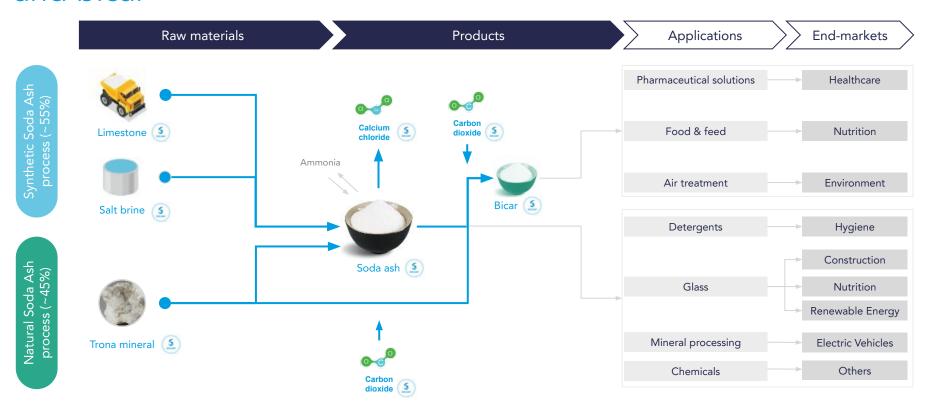
We are global market leader in both Soda Ash and Bicar



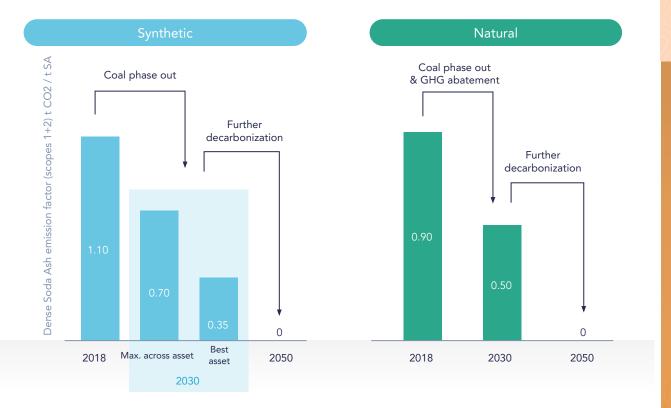


Down- and upstream integration into raw materials and bicar





Clear path towards carbon neutrality by 2050





Key messages



30% emission reduction committed and planned by 2030 through full coal phase out



Path to full carbon neutrality by 2050

- Elimination of process emissions (30% reduction)
- Full shift towards decarbonized energy (40% reduction)

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Key messages



Achieved 5% emission reductions via initiatives in Rheinberg,
Devnya and Green River



Clear plan to reduce emissions another 15% by 2025 and another 10% by 2030



Reduction initiatives are selected, prioritized and structured so that returns always exceed WACC

We are delivering on our energy transition commitments



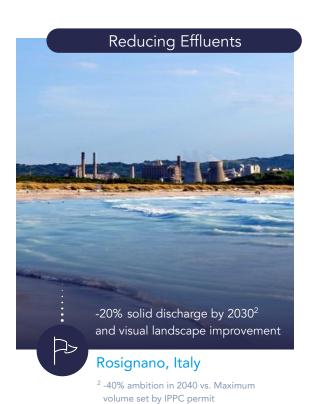
On-site solar farm (Les Petons, BE) completed in 2021 **Biomass** (Rheinberg, DE) - GHG impact -4%* Waste-To-Energy Stage 1 completed in '21 / stage 2 in '24 (Dombasle, FR) GHG impact -2%* Waste-To-Energy & Energy efficient gas turbine 2024 (Bernburg, DE) Completed in 2021 Coal to gas (Greenriver, WY, USA) -GHG impact -2%* Stage 1 completed in '21 / stage 2 '23 GHG abatement Biomass & Waste-To-Energy GHG impact -6%* (Devnya, BG) - GHG impact -4%* Stage 3 completed by '24 Biomass & Stage 1 completed in '22 / full completion by '30 Waste-To-Energy On-site solar farm (Torrelavega, ES) (Provadia, BG) Stage 1 completed in '19 / completed in 2022 full completion by '30 Energy efficient gas turbine

(Rosignano, IT)
Completed in 2018

Taking action to improve environmental impact beyond CO₂ emissions









1 vs. 2018 baseline

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Our breakthrough innovation for a more sustainable process





CO₂ emissions



Energy consumption



First technology patent



Investment up to date

2023-2024

2025-2030

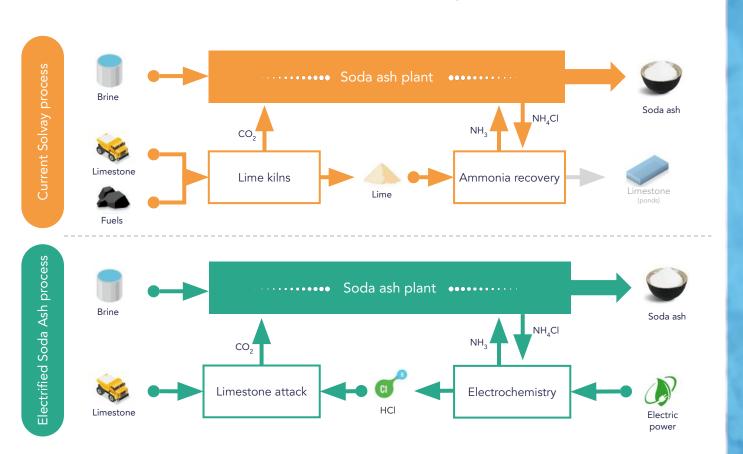
-2030-2050

Process Technology
Validation

ndustrial Pilot Design & Trials Integration in Hybrid Mode Full implementation



We are reinventing the Solvay process



Yield improvement leading to



















Process Fu









Soda Ash & Bicar key takeaways





Track record of strong & resilient cash generation, margins and growth through the cycles

Strongly exposed to attractive and fast-growing Bicar business (growing 2x faster than Soda Ash) Global Leader with world-class assets for natural and synthetic Soda Ash production Accelerating the energy transition to be carbon neutral by 2050 at latest

Reinventing the synthetic Solvay Soda Ash production process via cutting-edge innovation

- Resilient demand and operating rate across cycles
- Market further tightening going forward
- Track record of ~5% p.a.
 EBITDA growth since 2013
- EBITDA growth expected to double to ~10% p.a. over next 5 years

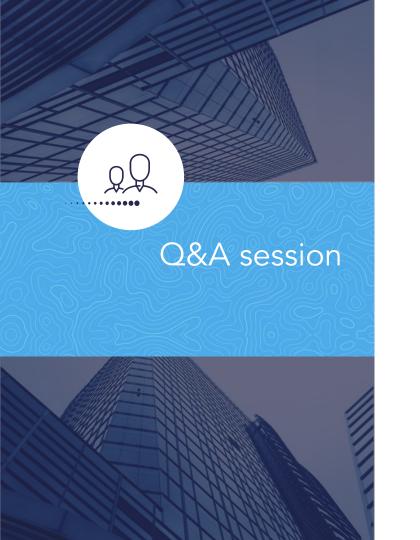
- Leader in Bicar business
- Bicar growing 2x as fast as Soda Ash business
- Strongly exposed to high growth areas flue gas treatment and healthcare
- Global leader with ~20% market share, and expanding
- Globally competitive world-class assets, combined with competitive regional assets
- Exposure to both natural (US) and synthetic (EU) production

- Clear path towards carbon neutrality by 2050 with 30% reduction by 2030
- Well underway to phase out coal and shift to renewables, 5% emission reduction already achieved
- Value creating ROI on projects

- Reinvention of Solvay process through electrification
- Technology change to emit 50% less carbon, enabling carbon neutrality in our production process
- Significant processing cost reduction

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Team of Solvay

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President, Soda Ash & Derivatives



Alexandre Blum
Finance Director, Soda Ash & Derivatives

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Safe harbor

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