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Braskem undertakes no liability for transactions or investment decisions made based on the information in this presentation.



## **AGENDA**

Braskem

- Introduction
- **Petrochemical Industry**
- **Financial Highlights**
- **ESG**
- Case Maceió
- **Outlook for the Future**

## Introduction



## Braskem is a petrochemical company with Basic Chemicals and Polymers operations

#### **Petrochemical Industry Overview**

#### **EXTRACTION/ REFINING** Oil/Gas



- Oil/Gas Production
- Oil Refining and Gas **Processing**
- Ethanol (Renewables)

#### **BASIC CHEMICALS**



- Separation
- Conversion

#### **POLYMERS**



Polymerization



#### **CONVERSION**

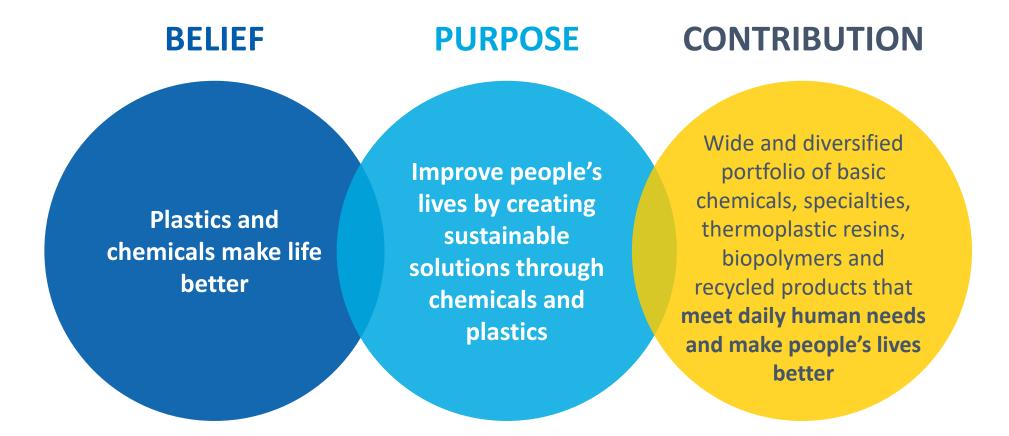


Converters: Pellets to bags, film, bottles or fiber

The petrochemical industry is based on molecules with carbon and hydrogen, which derived primarily from petroleum (crude oil) and gas

## Braskem is constantly in the search for creating pioneer and sustainable solutions in the petrochemical industry, aiming to improve people's lifes

**Belief and Purpose** 



During this tough global scenario, plastics and chemicals were reinforced as essential materials, as they perform an important role to combat the pandemic and to life in social distancing

# Braskem has a successful track record of organic and inorganic growth driven by its internationalization strategy

#### **Growth Path**

## Creation of Braskem

From the integration of Copene, OPP, Trikem, Proppet, Nitrocarbono and Polialden

## Internationalization and start of the Green PE

Start of the internationalization process with the acquisition of Sunoco's PP plants in the US Start up of the green ethylene plant

## Start up of Braskem Idesa

Start up of Braskem Idesa petrochemical complex in Mexico, representing a milestone in the process of diversifying feedstock geographic location

## Revision and Consolidation of the Company's global strategy

Revision and consolidation of the global strategy for 2030 to support the investments prioritization and capital allocation, considering its long-term objectives in sustainable development, market trends and demand for the coming years. The strategy consists of its foundation, strategic pillars, and the growth avenues

2002 2007

2010

2011

2016

2020

2022

2023 onwards

## Leadership in Brazil

Acquisition of the assets of the Ipiranga Group, advancing the consolidation of the Brazilian petrochemical sector

## Leadership in PP in the US

Acquisition of Dow's PP assets in the US and Germany, becoming the largest PP producer in the US

## New PP plant in the US

Start up of the new PP plant in the US, strengthening the leading position in PP production in the region

#### On going and Future Projects

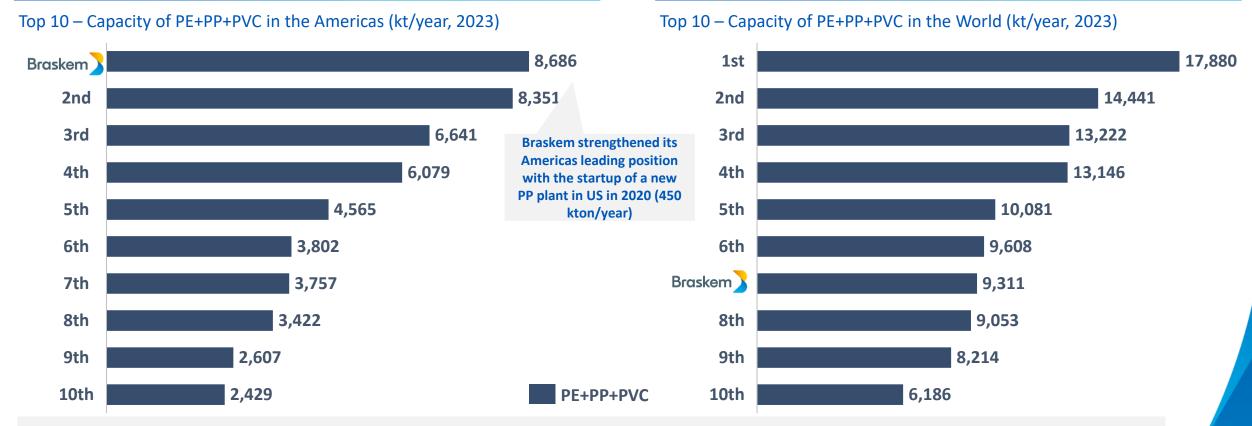
Braskem will continue focused on creating value through several initiatives on its growth avenues: (i) traditional businesses, to grow current businesses through selective investments, besides continuing to implement the decarbonization of our current assets; (ii) bio-based, to grow in bio-based resins and chemical products; and (iii) recycling, to grow in circular products portfolio

## Due to the implementation of its growth initiatives, Braskem has achieved high standards of size and scale...

**Global Resins Capacity Ranking** 

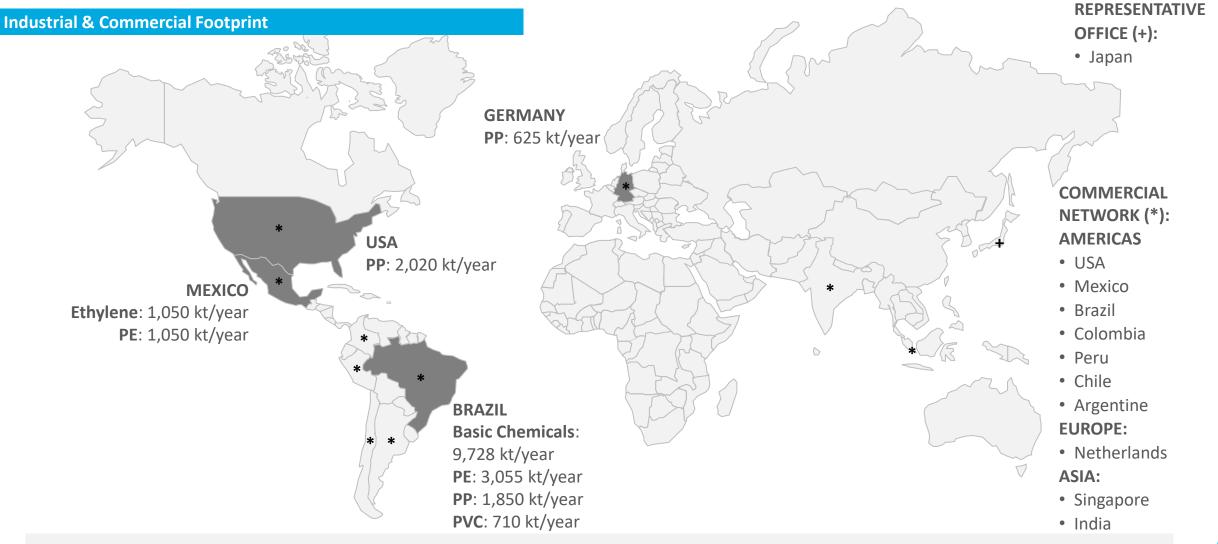
#### BRASKEM IS THE LARGEST PRODUCER OF THERMOPLASTIC RESINS IN THE AMERICAS...

#### ... AND ONE OF THE LARGEST PETROCHEMICALS IN THE WORLD



Size and scale are relevant drivers for competitiveness and profitability in the petrochemical industry

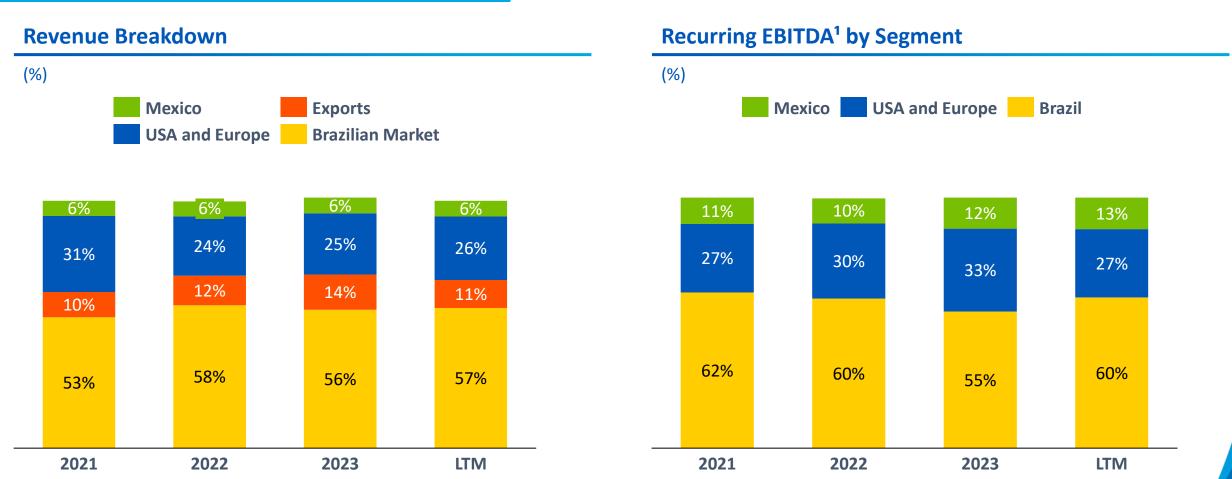
# ... and became a global company, with industrial units located in Brazil, USA, Europe and Mexico



Industrial units located in Brazil, United States, Mexico and Germany
Global commercial network, with offices in the Americas, Europe and Asia, serving clients in more than 70 countries

## The Company has reduced its exposure to Brazil through geographic diversification

#### **Geographic Diversification**

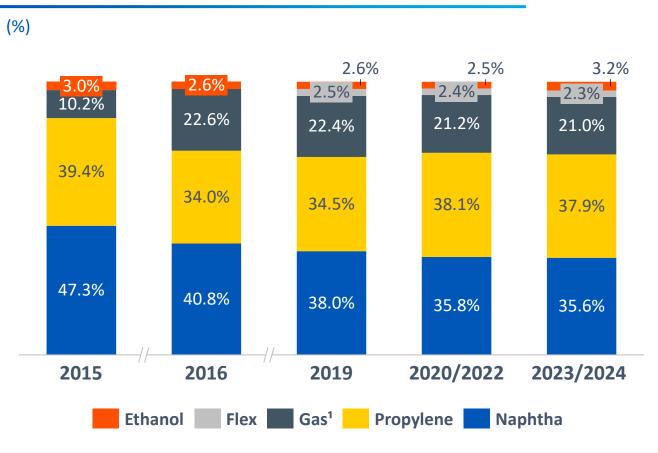


#### Relevant contribution from non-Brazilian segments in financial results

# Braskem has also advanced towards a more balanced feedstock profile, reducing its exposure to naphtha

**Feedstock Diversification** 

#### **Feedstock Profile by Production Capacity**



#### **Comments:**

- Feedstock is a key competitive element in the petrochemical industry, representing a substantial portion (~60-70%) of total company's' cost
- Braskem seeks to continuously diversify its feedstock matrix as they follow commodities prices (e.g.: Oil and Natural Gas) with high volatility
- Over the past years, Braskem has been focusing on reducing its dependency on naphtha by increasing gas share, as well as developing flexibility in Bahia

In 2023, Braskem concluded the project to expand green ethylene production capacity in 60 kton/year at the Triunfo
Petrochemical Complex in Rio Grande do Sul

## Currently, the Company has three reportable business segments for investors: (i) Brazil, (ii) **USA & Europe and (iii) Mexico**

Braskem Business Segments			
	Brazil	USA <sup>1</sup> & Europe	Mexico
Business Model	Basic Chemicals and Polymers Integrated Business	Non-integrated PP Business	Integrated PE Business
Profile	Leader as the only integrated petrochemical company in Basic Chemicals and Polymers	Largest PP producer in North America	Largest PE producer in Mexico
Feedstock	Naphtha, Ethane, Propane, Flex, Propylene and Ethanol (renewable)	Propylene	Ethane
Basic Chemicals Production Capacity (kt/y)	Basic Chemicals: 9,728	-	Ethylene: 1,050
Polymers Production Capacity (kt/y)	PE: 3,055 PP: 1,850 PVC: 710	PP in USA: 2,020 PP in Europe: 625	PE: 1,050

## **Highlights of Brazil Segment**



## INTEGRATION AND SCALE

• **Leader in Brazil** as the only integrated petrochemical company in basic chemicals and polymers (PE+PP+PVC)

# FEEDSTOCK AND SUPPLIER DIVERSIFICATION

- **Exposure to different types of feedstock**, such as naphtha, ethane, propane, propylene and ethanol (renewable feedstock)
- **Diversified naphtha supplier base in Brazil**, with several suppliers of naphtha imports. In 2023, naphtha imports accounted for around 60% of total naphtha consumption in the period

# CONSOLIDATED MARKET POSITION AND EXPORT CAPACITY

- Consolidated market share, with close and differentiated relationship with Clients, broad portfolio of products and import parity pricing
- Export capacity in times of lower demand in Brazil, with exports optimized by industrial and commercial presence outside the country

## CURRENCY FLUCTUATION HEDGE

**Natural hedge against currency fluctuation**. The demand contraction in Brazil tends to be followed by the devaluation of the real (benefit of dollarized business). The appreciated real tends to be followed by growth in demand

## **Highlights of USA & Europe Segment**



#### PP LEADERSHIP **POSITION IN NORTH AMERICA**

- **Largest PP producer in North America** with a modern Innovation & Technology Center supporting its clients
- New world-class PP production facility (Delta) opened in 2020

#### **SUPPLIER DIVERSIFICATION**

**Flexibility** via a variety of propylene sources such as PDH's<sup>1</sup>, refineries and crackers

#### **INTERNATIONAL COMMERCIAL RELATIONSHIP**

- **Europe as an export platform** to support global clients
- **New Global Export Hub Facility in Charleston**, South Carolina (USA) with packaging, warehousing and export shipping services

#### **DIVERSIFIED CUSTOMER BASE**

Diversified product mix, selling polypropylene (PP) to more than 400 customers in 2023, serving a broad range of end users in several industries

### **Highlights of Mexico Segment**



## INTEGRATION AND SCALE

- Integrated business for the production of ethylene, high and low density polyethylene (PE)
- Largest PE producer in Mexico, with production capacity of ~1.1 million tons/year of ethylene and PE

## GAS-BASED INTEGRATED COMPLEX

 Competitive cost structure, which is similar to a plant in the USA with "state-of-the-art" technology

## CAPACITY TO IMPORT FEEDSTOCK

- Capacity to import approximately 25,000 barrels per day from the US, in order to complement the supply of ethane by Pemex
- Ethane Import Terminal, with an import capacity of approximately 80 thousand barrels/day, under construction and expected to start operations in the first quarter of 2025

#### COMMERCIALLY COMPETITIVE AND DIVERSIFIED

- Strategic geographical position, with access to local market and exports on all continents
- Consolidated customer portfolio, formed by more than 200 customers in 2023 and synergies with Braskem's sales channels globally

# Braskem's growth is driven by the ambitions of its Corporate Strategy, which consists of its strategic pillars, foundation and growth avenues

## STRATEGIC PILLARS AND THEIR AMBITIONS



## **Productivity and Competitiveness**

Drive toward top quartile of the global cash cost curve, focusing on decarbonization initiatives and high value investments



#### Sustainability

Be a reference in the chemical and plastics industry in sustainable development globally



## Growth and Diversification

Increase global diversification in feedstocks and bio-based and circular products



#### **Innovation**

Deliver high value sustainable solutions through chemical and plastic innovation

#### **GROWTH AVENUES**



## Traditional Business

- Grow existing businesses through selective investments, including productivity and competitiveness improvements
- · Decarbonize existing assets
- Objective to achieve carbon neutrality by 2050 and reduce scope 1 and 2 emissions by 15% by 2030



#### **Bio-based**

- Grow in bio-based resins and chemical products
- Increase the use of renewable feedstocks
- Objective to expand the production capacity of green products to 1MMt by 2030



#### Recycling

- Grow in circular products (mechanical recycling)
- Increase the use of circular raw feedstock (advanced recycling)
- Objective to growing to 1MMt of resins and chemical products with recycled content by 2030



#### Shareholders Value Creation

 Continue to balance our capital allocation, returning value to shareholders over the cycle while investing in our business and its growth opportunities, generating positive impact for all stakeholders

#### **FOUNDATION**



#### Safety

Safe operations as PERMANENT AND NON-NEGOTIABLE VALUE



#### People

A human-centered company that promotes diversity, inclusion and human rights



#### Governance

Governance and compliance in line with best global market practices

# Petrochemical Industry



## The petrochemical industry is focused on the production of "building blocks" which will be converted and will generate a large range of products

**Petrochemical Chain** 





- Crude Oil/Naphtha
- Natural Gas/Ethane
- Coal
- Ethanol (Renewable)

#### **BASIC CHEMICALS**



- Ethylene
- Propylene
- Butadiene
- Aromatics

#### **DERIVATIVES**





- Resins (PE, PP, PVC)
- Intermediates
- **Specialties**

#### **MATERIALS**



- **Plastics**
- Fibers
- Rubber
- Paint, Coatings and others

#### **DEMAND SEGMENTS**

- Automotive
- Packaging
- Civil Construction
- Industrial uses
- Medial
- Pharmaceutical
- Personal Care
- Recreation/Sports
- Textiles
- Electrical
- Aircraft/Aerospace
- Electronics and others

**Raw Materials** 

**Building Blocks** 

**Commodities & Specialties** 

Formulated Products / End use products

# Feedstock pricing is given internationally and mainly impacted by changes in oil and natural gas prices

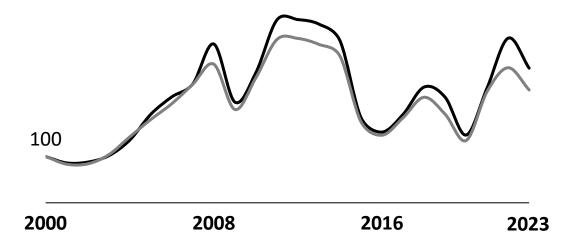
**Feedstocks** 

#### Crude Oil (\$/bbl) and Naphtha (\$/ton)

Base 100 - 2000

International market is the price maker

— Brent — Naphtha ARA

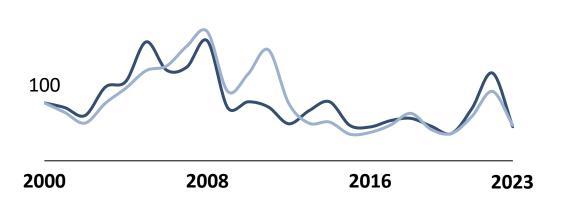


#### Natural Gas (\$/MMBTU) e Ethane (\$/ton)

Base 100 - 2000

International market is the price maker

— Natural Gas — Ethane USG

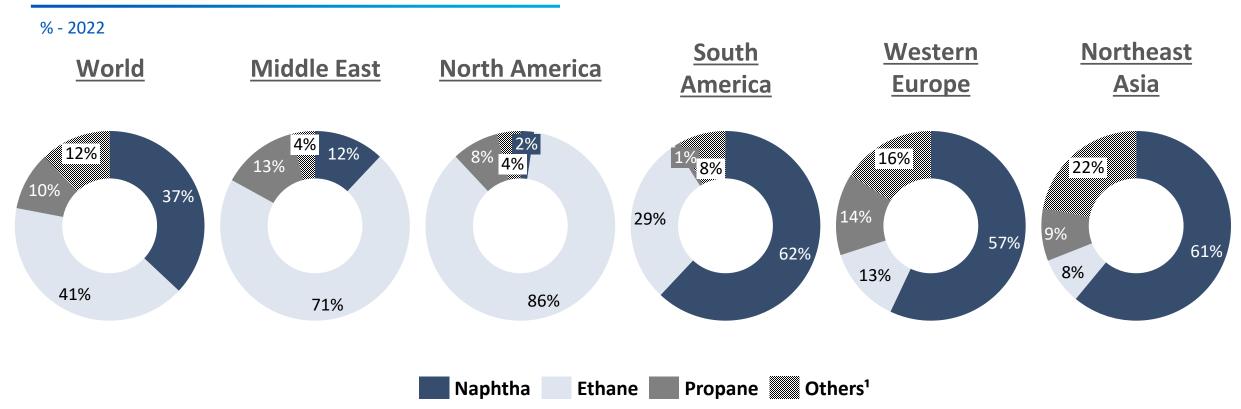


Naphtha prices are highly correlated with crude oil prices, as the price of ethane follows natural gas fluctuations, yet sporadic detachments may occur, due to specific market conditions

## Feedstock profile for ethylene production changes according to the region

#### **Feedstocks**

#### **Ethylene Production by Feedstocks**



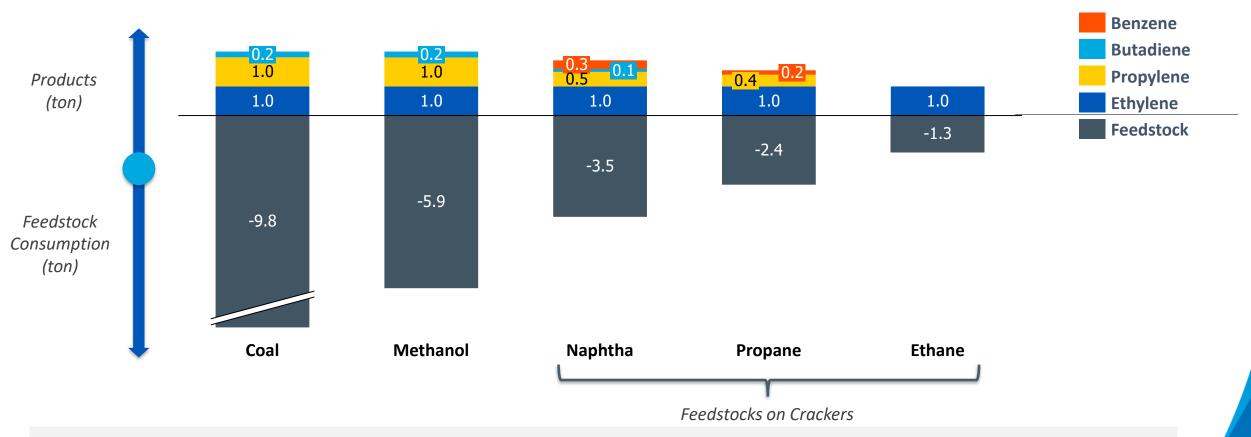
Middle East and North America are mostly ethane-based ethylene producers.

In South America, Western Europe and Northeast Asia, most ethylene crackers are naphtha based

## Each feedstock provides a different number of co-products when cracked

#### **Feedstocks**

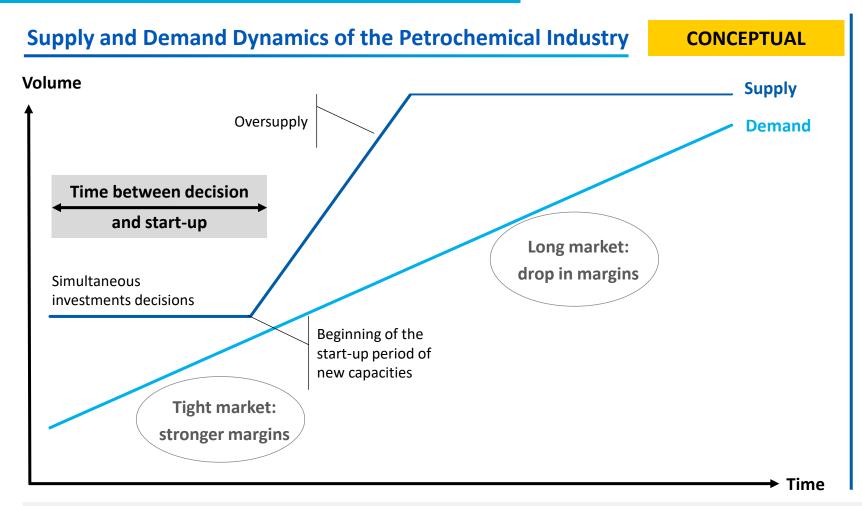
#### **Co-Products Yield when producing 1 unit of ethylene via several feedstocks**



The composition of the products depends crucially on the feedstock used. Heavier feedstocks will produce more products than lighter feedstocks on crackers

## Profitability in the petrochemical industry behaves cyclically

Profitability in the petrochemical industry



#### **Highlights:**

- Investment decisions are usually taken simultaneously and at times when the market is tight – with strong spreads
- However, when the new capacities come into operation, there is an oversupply of products
- The oversupply pressures prices down and then the market is "long", with reduced spreads

Investments in the petrochemical industry do not occur in a linear fashion with demand, which results in significant excesses of capacity at certain moments

# Financial Highlights



## Fundamental aspects in the profitability of the petrochemical industry

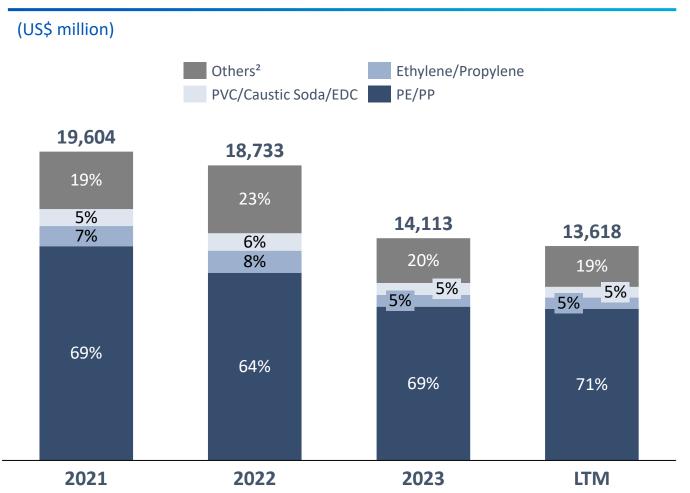
Conceptual



# Braskem revenues follow petrochemical demand and price dynamics and is composed mainly by PE/PP, which represents ~60-70% of total revenues

**Financial Highlights - Net Revenue** 

#### **Net Revenue**



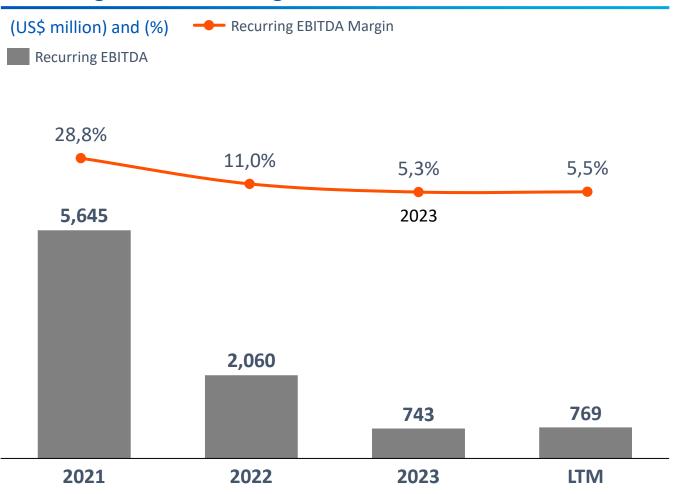
#### **Comments:**

- Demand is strongly correlated to economy growth, as the products produced by the petrochemical industry serve as raw material for most sectors of the economy
- Braskem prices follow international market references, that is defined by the marginal producer<sup>1</sup>
- In Brazil, exchange rate variations are systematically passed on to the prices of the final product
- Additionally, Braskem has a global commercial network, with offices in the Americas, Europe and Asia, serving clients in 70 countries

## Margins in the petrochemical industry are mainly driven by industry spreads and companies' cost competitiveness and scale

**Financial Highlights - Recurring EBITDA** 

#### **Recurring EBITDA and Margin - Consolidated**



#### **Comments:**

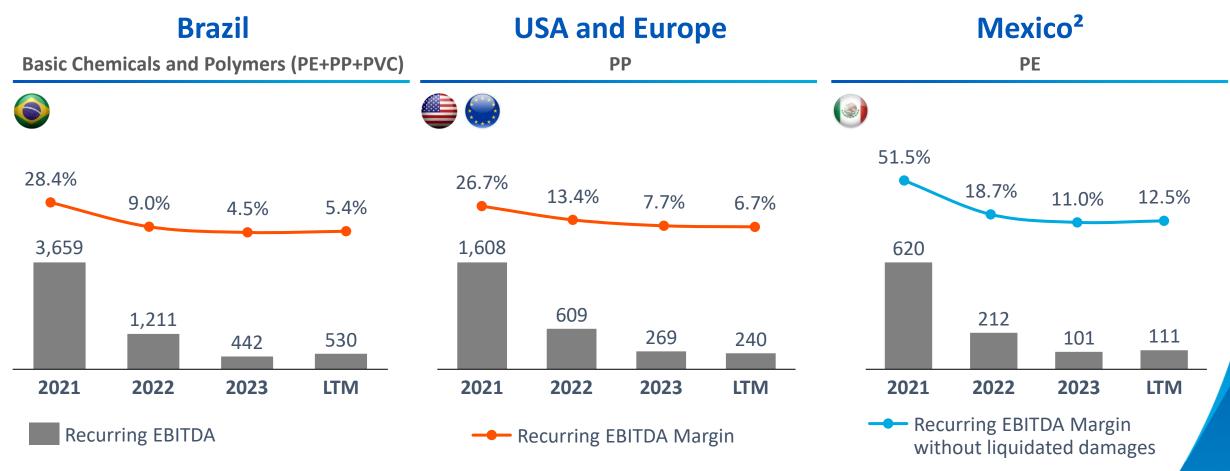
- The petrochemical industry is a cyclical business. This is because investments in the industry do not occur in a linear way according to demand, which results in excess capacity at certain times
- Therefore, the profitability of the petrochemical industry will fluctuate over time, and in some years the margin will be healthier and in other years it will be pressured

The last 12 months results have been impacted by the compression of international spreads as a result of the combination of lower global demand and the entry of new PE and PP capacity

**Financial Highlights - Recurring EBITDA by Segments** 

#### **Recurring EBITDA<sup>1</sup> and Margin – By Segments**

(US\$ million) and (%)



## The Company's decision-making aims to maximize its cash generation

Conceptual

(=)	Recurring EBITDA	• Margins: cyclic, with the existence of "peaks" (high margins) and "valleys" (low margins) in the petrochemical cycle
(+/-)	Working Capital	<ul> <li>Constant search for working capital optimizations, mainly with feedstock suppliers, due to its relevance in the total cost</li> </ul>
(-)	CAPEX	<ul> <li>Capital intensive industry, with high amounts of maintenance and strategic CAPEX</li> </ul>
(-)	Interest	<ul> <li>Maintenance of the Net Debt level under control, with most debt maturing in the long term</li> </ul>
(-)	Income Tax	<ul> <li>Tax management working on risk management to minimize the occurrence of tax contingencies and monetization of tax credits</li> </ul>
(=)	Cash Generation	<ul> <li>Generally, positive cash generation, even in periods of down cycles of the petrochemical industry</li> </ul>

## Braskem presents consistent operating cash generation, even in periods of down cycles in the petrochemical industry

**Financial Highlights - Cash Generation** 

#### **Cash Generation**

(R\$ billion)

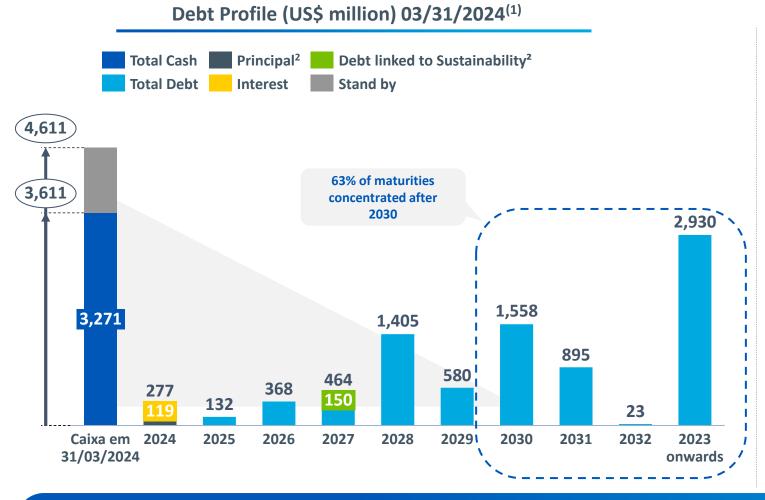
	2018	2019	2020	2021	2022	2023	LTM <sup>3</sup>
Recurring EBITDA	11,1	5,9	11,0	30,3	10,6	3,7	3,8
Operational CAPEX	(1,9)	(1,8)	(1,7)	(3,1)	(3,9)	(3,8)	(3,5)
Strategic Investments	(0,8)	(0,9)	(1,1)	(0,3)	(1,0)	(0,7)	(0,7)
Changes in WC <sup>1</sup>	1,4	2,5	(2,8)	(7,7)	4,3	2,6	3,5
Operational Cash Generation	9,7	5,7	5,4	19,2	10,0	1,8	1,3
Interest Paid	(1,9)	(2,2)	(2,7)	(2,9)	(2,9)	(3,6)	(3,8)
Income tax paid	(0,9)	(0,4)	(0,3)	(3,7)	(1,0)	(0,9)	(0,7)
Others <sup>2</sup>	0,2	0,0	0,0	0,0	(0,1)	0,8	0,1
Recurring Cash Generation	7,1	3,1	2,5	12,6	6,0	(1,9)	(1,0)
Alagoas	-	-	(1,2)	(2,9)	(2,7)	(2,7)	(2,4)
Cash Generation	7,1	3,1	1,3	9,7	3,3	(4,6)	(1,8)

#### **Comments:**

- Through its operating activities, Braskem consistently presents positive cash generation, even after the payment of its obligations
- Currently, the Company's main cash needs are:
  - Working capital needs
  - Debt and debt interest payments
  - CAPEX related to investments in operations, modernization and strategic investments
  - Tax payments
  - Alagoas payments (starting in 2020)

Braskem

## Maintenance of a very long corporate debt maturity profile



#### **Debt Indicators**

- Sufficient liquidity to cover liabilities coming due in the next **69 months**<sup>3</sup>
- Average debt term of ~12 years
- Company's weighted average cost of debt varies by exchange rate variation + 6.1%<sup>4</sup>
- Corporate leverage of 8.12x, in line with 4Q23
- Adjusted Net Debt (ex-Braskem Idesa) of ~US\$5.3bn

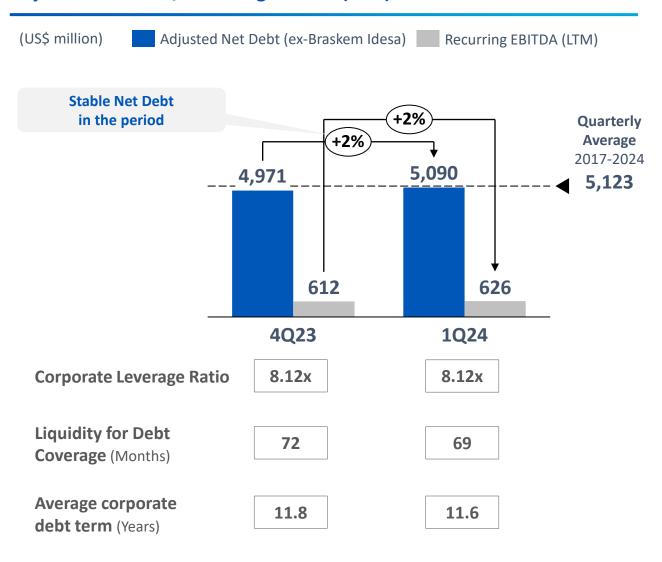
Agency	Rating	Perspective	Date
Fitch	BB+	Negative	12/14/2023
S&P	BB+	Stable	02/26/2024

Braskem reiterates its commitment to financial health through the maintenance of a robust cash position and a very long debt profile

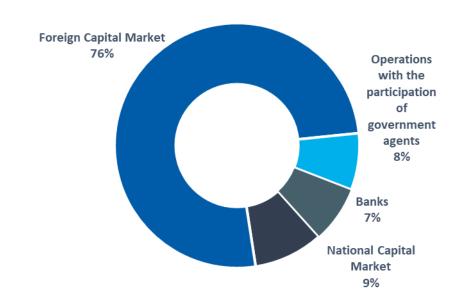


## Braskem continued to present solid credit metrics

#### Adjusted Net Debt/Recurring EBITDA (LTM)<sup>1</sup>



#### **Financing Sources**



#### **Comments**:

- The Company has various financing sources, with a focus on bond markets
- The Company maintains a robust cash position, very long debt maturity profile and is committed to efficient capital allocation and cost discipline

Source: Braskem. Note (1): LTM: Last 12 months

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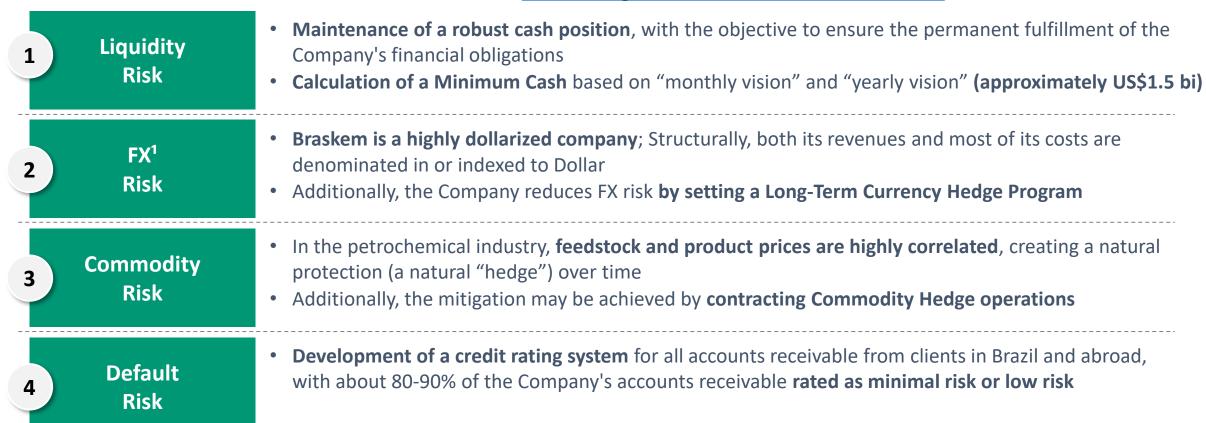
Brown

# Braskem adopts a conservative financial policy to limit the risks associated with the exposure to the cyclical and capital-intensive nature of its businesses

**Financial Highlights - Financial Policy** 

Conceptual

#### **Main Mitigation Mechanisms for each Risk**



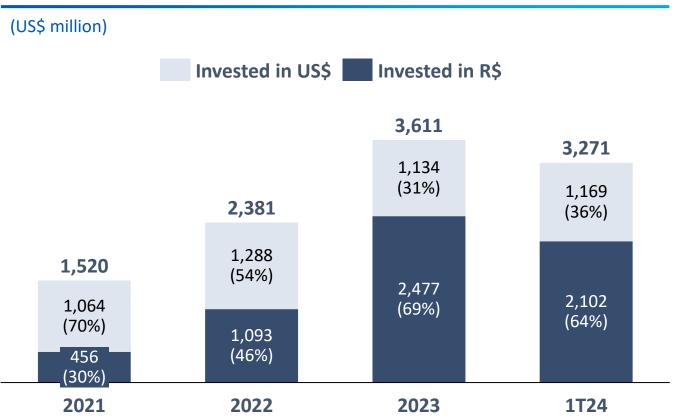
Braskem has exposure to risks (liquidity, FX<sup>1</sup>, commodity price variations, default, among others) However, the Company has mitigation mechanisms for these risks to protect its cash generation

# Braskem consistently maintains a robust cash position, with the objective to ensure the permanent fulfillment of the Company's financial obligations

**Financial Highlights - Liquidity Risk** 



#### Cash Position<sup>1</sup> (Ex-Braskem Idesa)



#### **Comments:**

- Braskem has a calculation methodology to determine a Minimum Cash "monthly vision" (30day horizon) and a minimum cash "yearly vision" (up to 12-month horizon)
  - The Company uses as Minimum Cash the highest value between these two references
- Additionally, the Minimum Cash liquidity must respect the following assumptions:
  - At least 60% of the Minimum Cash must have immediate liquidity within 15 days
  - Preserve at least 80% of the Minimum Cash with liquidity within 30 days

The Company also has an international revolving credit facility in the amount of US\$1 billion, maturity in 2026

This line could be used in the event of deterioration in the macroeconomic scenario, for instance

## Braskem reduces FX risk by setting a Long-Term Currency Hedge Program

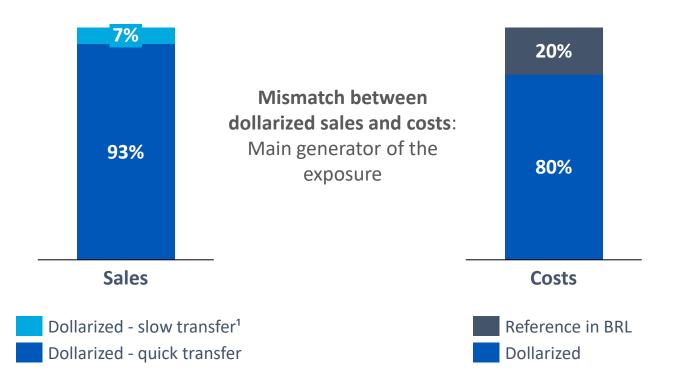
Financial Highlights - FX Risk



#### **FX** Exposure

(%)

"Dollarized" company - sales are referenced in USD, but some costs (e.g., fixed costs), expenses and CAPEX, referenced in BRL



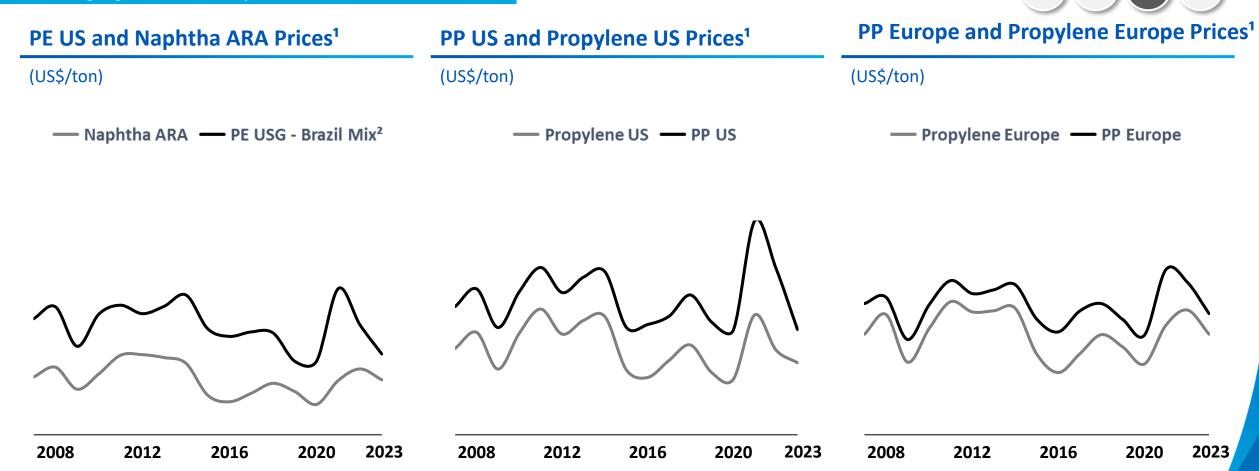
#### **Comments:**

- With the objective of partially mitigate the long-term FX risk, as of Sep/2016, the Company started to contract financial derivatives to compose a Long-Term Foreign **Exchange Hedge Program** 
  - The program's main form of mitigation is dollar call and put option contracts, protecting expected flows for a horizon of up to 24 months
- In addition to the Hedge Program, in order to balance the composition between assets and liabilities in dollars, Braskem's Financial Policy establishes that the Company must always maintain a percentage of at least 70% of the net debt expressed in dollars

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In the petrochemical industry, feedstock and product prices are highly correlated, creating a natural protection (a natural "hedge") over time

**Financial Highlights - Commodity Risks** 

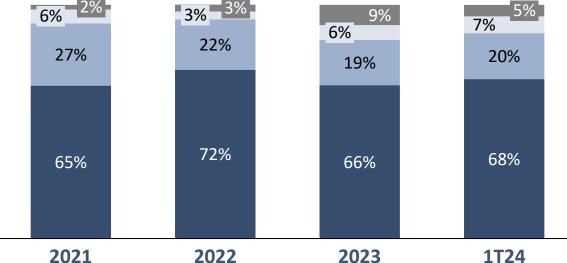


Additionally, in addition to the natural "hedge", the mitigation of Commodity Risks may be achieved by contracting Commodity Hedge operations

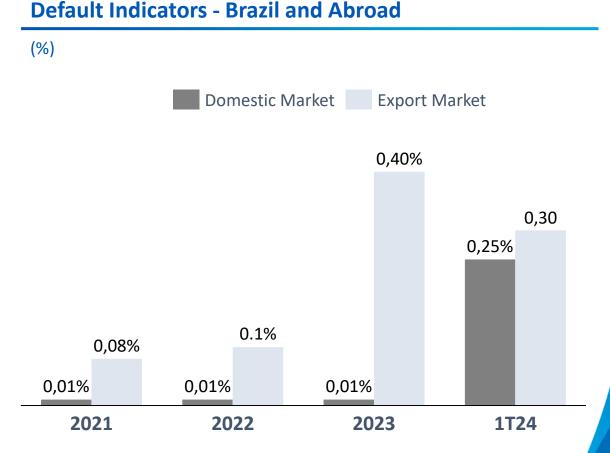
## Due to its rigorous analysis for granting credit to clients, Braskem has low default levels



# Risk Ratings of Accounts Receivable - Brazil and Abroad (%) High / Very High Risk¹ Low Risk Medium Risk Minimal Risk 5% 5% 6%



About 80-90% of the Company's accounts receivable is rated as minimal risk or low risk



Braskem has a low level of default by its clients, both in Brazil and abroad

## Braskem could pay Dividends in 2 ways: as Mandatory and as Complementary

#### **Dividends Policy**

1

#### 5% allocated to the Legal Reserve

• Before any other allocation, **5% of the net income** determined in accordance with Brazilian Corporation Law and with Braskem's Bylaws are **allocated to the Legal Reserve** 

Net Income from each fiscal year

#### **25% of Mandatory Dividend**

- Shareholders will be entitled to receive as Mandatory Dividend 25% of the net income for the fiscal year, in accordance with Article 202 of Brazilian Corporation Law
- The class "A" and class "B" preferred shares have the same priority in the distribution. The common shares are entitled to Dividends only after the payment to class "A" and class "B" preferred shares

## 3

#### **Complementary Distributions**

- The payment of **Dividends complementary to the Mandatory Dividend**, **must be analyzed by the Company** considering its capacity to generate cash flow, based on its long-term projections
- The proposal for Complementary Distributions must consider the impact of such distribution on the Net Debt/EBITDA ratio of the Company measured in U.S. dollars. This indicator, after any distribution, must not be greater than 2.5x in the current year and in the 2 subsequent years

#### **Comments:**

- As provided for in Article 202,
   Paragraph 4 of Brazilian Corporation
   Law, the payment of Dividends is
   not mandatory in fiscal years in
   which the Management bodies
   inform the Annual Shareholders
   Meeting that such payment is
   incompatible with the financial
   situation of the Company
- Dividends must be paid, unless otherwise decided by the competent body, within 60 days from the date they are declared and, in any case, during the fiscal year
- <u>Click here</u> to download Braskem's Dividends Policy

ESG



**PUBLIC** 

#### **INTRODUCTION**

## Braskem is a petrochemical company with Basic Chemicals and Polymers operations

# **EXTRACTION/ REFINING** Oil/Gas



- Oil/Gas Production
- Oil Refining and Gas Processing
- Ethanol (Renewables)

#### **BASIC CHEMICALS**



- Separation
- Conversion

Braskem

#### **POLYMERS**



Polymerization

# CONVERSION



Converters: Pellets to bags, film, bottles or fiber

The petrochemical industry is based on molecules with carbon and hydrogen, which derived primarily from petroleum (crude oil) and gas



#### **INTRODUCTION**

Braskem is constantly in the search for creating pioneer and sustainable solutions in the petrochemical industry, aiming to improve people's life

#### BELIEF



Plastics and chemicals make life better

#### **PURPOSE**



Improve people's
lives by creating
sustainable solutions
through chemicals and
plastics

#### **CONTRIBUTION**

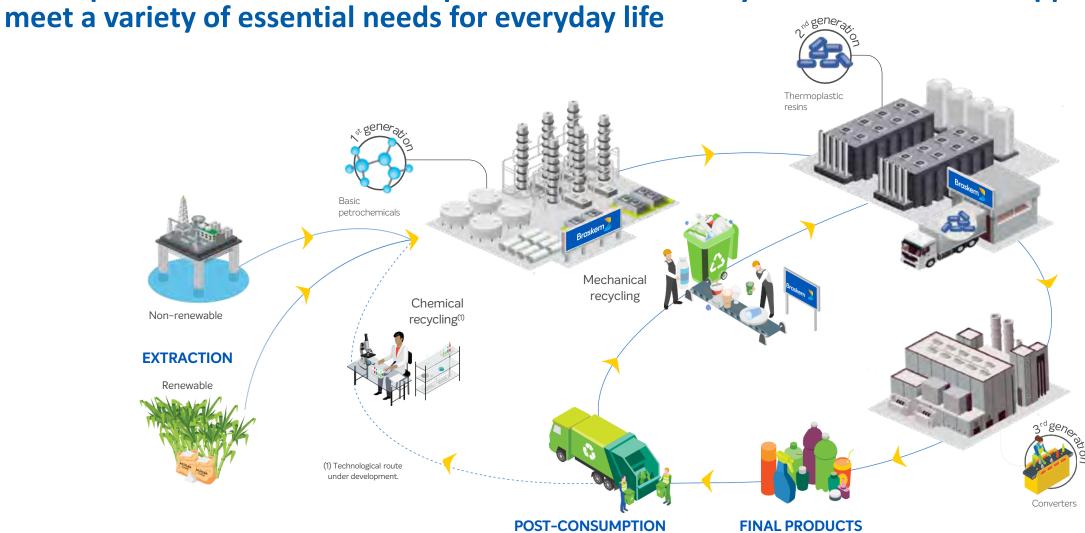


Wide and diversified portfolio of chemicals, specialties, thermoplastic resins, biopolymers and recycled products that meet daily human needs and make people's lives better



#### **BUSINESS MODEL**

Through renewable, non-renewable and post-consumer raw materials, Braskem offers a broad portfolio of chemicals and plastics transformed by our customers into applications that



#### SUSTAINABLE DEVELOPMENT JOURNEY Completion of the Braskem has been committed to contribute to expansion of **Green Ethylene** sustainable development since its creation in production capacity to 260 kty 2002, seeking to meet the challenges inherent to **End of monitoring** 2030 / 2050 of the Compliance **Carbon Neutral** the petrochemical industry System by CGU<sup>6</sup> Circular and AGU7 **Economy** Horizon of Objectives to the new long-term carbon neutrality objetives and circular economy Certification by 2022 the MPF3, DoJ4 2023 e SEC⁵ On the **Green PE** improvements in **Creation of GHG<sup>1</sup> Inventory** the compliance 2021 Beginning of Braskem Updating of climate operation of the system First year of the risk assessment and green ethene, With a letter of **GHG Inventory** Quality of the Materiality raw material for commitment to accounting certification ISO Matrix the Green PE, a sustainable 2018 37001 with made from Completion of the operation 2014 implementation of 2020 sugar cane second cycle of due 2009 Anti-Bribery System diligence on human Circular Economy Record score in rights **Global Compact** 2002 2021 Macro 2010 reputation, Position and 2008 Lead 31% achievement of **Objectives** according to the strategy in postthe sustainable For the RepTrak consumption Statement development leadership in methodology plastic on Climate strategy contributions to Change Implementation of SDGs<sup>2</sup> Global Industrial Sustainable



Development

**Policy** 

Decarbonization

Program.

#### SUSTAINABLE DEVELOPMENT JOURNEY

# At the end of 2020, Braskem has renewed its long-term objectives to sustainable development considering global trends and aligned with UN 2030 Agenda and with the Paris Agreement



Until 2022, Braskem achieved approximately 31% of its sustainable development objectives<sup>1</sup> set for 2030





#### **CORPORATE STRATEGY 2030**

# Braskem's corporate strategy integrates its commitments to sustainable development and the maintenance of competitiveness, prioritizing investments in its growth avenues

#### **PILLARS**



Drive toward top quartile of the global cash cost curve, focusing on decarbonization initiatives and high value investments



#### Sustainability

Be a reference in the chemical and plastics industry in sustainable development globally



# **Growth and Diversification**

Increase global diversification in feedstocks and bio-based and circular products



#### **Innovation**

Deliver high value sustainable solutions through chemical and plastic innovation

#### **GROWTH AVENUES**



# Traditional Business

- Grow existing businesses through selective investments, including productivity and competitiveness improvements
- Decarbonize existing assets
- Objective to achieve carbon neutrality by 2050 and reduce scope 1 and 2 emissions by 15% by 2030



#### **Bio-based**

- Grow in bio-based resins and chemical products
- Increase the use of renewable feedstocks
- Objective to expand the production capacity of green products to 1MMt by 2030



#### Recycling

- Grow in circular products (mechanical recycling)
- Increase the use of circular raw feedstock (advanced recycling)
- Objective to growing to 1MMt of resins and chemical products with recycled content by 2030



#### Shareholders Value Creation

 Continue to balance our capital allocation, returning value to shareholders over the cycle while investing in our business and its growth opportunities, generating positive impact for all stakeholders

#### **FOUNDATION**



#### Safety

Safe operations as PERMANENT AND NON-NEGOTIABLE VALUE



#### People

A human-centered company that promotes diversity, inclusion and human rights



#### Governance

Governance and compliance in line with best global market practices



#### **FOUNDATION - HEALTH, SAFETY AND HUMAN RIGHTS**

# Safety and People are foundations of Braskem's corporate strategy, guided to ensure a safe, diverse, inclusive work environment to all its professionals

# DUE DILLIGENCE ON HUMAN RIGHTS

- In 2022, a new due diligence on human rights in a global scale was conducted in Braskem. The risks mapped were analyzed in relation to existing corporate risks, in this sense, the new action plans were developed and will be integrated into the current risks' matrix.
- Opportunities for improvements were found in the following themes: relationship with communities, supply chain, plastic's disposal, occupational health and DE&I.
- Braskem aims to manage 100% of high and medium human rights risks by 2030.

# HUMAN RELIABILITY PROGRAM



- Since 2018, the program aims to reduce the tendency for errors and losses in operations and maximize production and operational efficiency.
- By 2030, the Company has the objective to reduce the (i) accident rate, with and without lost time, to 0.5 accidents per one million hours worked; and (ii) the accident rate of Tier 1 process to 0.05 accidents per one million hours worked.

#### **INTEGRAL HEALTH**



- In 2022, Braskem began the development of a Global Program of Integral Health and Well-Being, which initiative is divided into four pillars: physical, emotional/mental, social/family, and occupational health.
- The Caring for People Program was created during the COVID-19 pandemic to welcome the team members and to promote an increasingly humanized and collaborative work environment.
- In 2022, the program produced 11 livestreams and a video, totaling 5,171 participants.

# DIVERSITY, EQUITY AND INCLUSION



- In 2022, Braskem DE&I actions were reinforced by the **establishment of a global corporate guideline** to direct the actions in all the regions it operates.
- In 2022, were conducted a selfidentification campaign of Race and Ethnicity in Brazil and United States, that helped the Company develop internal initiatives to achieve its goals.
- For 2030, Braskem's commitment is to increase the share of women leaders globally to 40% and black team members in Brazil and United States to 37%.



#### **FOUNDATION – SOCIAL RESPONSIBILITY**

# Braskem has been committed since its creation to its value chain and has worked mainly through investment programs to promote local development

#### GLOBAL SOCIAL IMPACT<sup>1</sup>



- Braskem invest in social and environmental projects in the locations it operates, through donations, sponsorship, ISP, and the Global **Volunteer Program**, which primarily address three long-term causes: education, circular economy, and local entrepreneurship and innovation.
- In 2022, Braskem carried out 153 social actions that benefited more than 610,000 people globally, including ISPs, donations, emergency campaigns, and volunteering. Additionally, more than R\$33 million were invested.

# **GLOBAL VOLUNTEER PROGRAM**

- The Global Volunteer Program was originated in 2017 to encourage Braskem's team members to perform volunteer actions that generate a positive social impact on the communities around the Company's operations.
- In 2021:

# 1.4 thousand

volunteers in 6 countries

## 37.2 thousand

of people benefited globally

#### **EMERGENCY DONATIONS DUE TO HEAVY RAINS**

5 emergency actions 121,000 benefited R\$3.3 million In Bahia, Petrópolis e Maceió people from donations In donations

#### **SER+ PROGRAM**

**30** cooperatives +900 people was benefited were impacted by the program

#### **PLASTITROQUE (BRA)**

33 tons of plastic + 6,400 people & 18 cooperatives was collected were benefited by the program

#### **PLASTIANGUIS (MX)**

197 tons of plastic 10,000 people was collected were benefited by the program

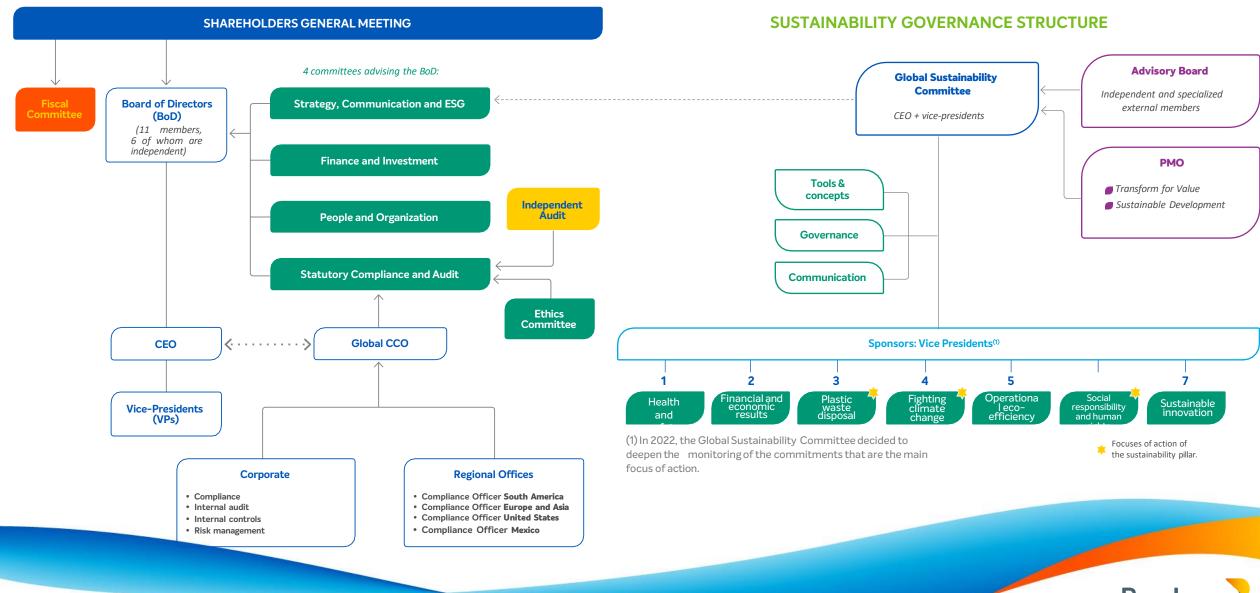
**ALAGOAS:** find more details in **Case Maceio** chapter.

**Discover Braskem's social** responsibility projects



#### **FOUNDATION - GOVERNANCE**

## Braskem relies on a governance structure that ensures the progress of its 2030 strategy



#### TRADITIONAL GROWTH AVENUE - INDUSTRIAL DECARBONIZATION PROGRAM

The Industrial Decarbonization Program aims to promote the emissions reduction front, focusing on energy efficiency and increasing the use of renewable energy



#### **COMBATING CLIMATE CHANGE**

#### **LONG-TERM OBJECTIVES**

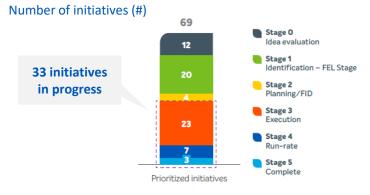
- Reduction<sup>1</sup> of absolute Scope 1 and 2 GHG<sup>2</sup> emissions by 15% by 2030
- Net-zero by 2050

#### Emissions (MM tCOe), Scope 1 and 2



- In 2022, Braskem mapped potential projects to achieve these long-term objectives through the development of the MAC Curve<sup>3</sup>, which considered 161 projects
- Based on the MAC Curve developed this year, 69 initiatives were prioritized with an estimated potential reduction of ~3.4 MMt CO2e in emissions
- Energy efficiency and electrification initiatives are the main fronts of the decarbonization portfolio

#### Initiatives prioritized by stage





#### TRADITIONAL GROWTH AVENUE - INVESTMENTS IN RENEWABLE ELECTRIC ENERGY

And to achieve its commitment of increasing to 85% the electrical energy purchased by 2030, Braskem signed agreements with an average term of 20 years

#### RENEWABLE ELECTRICITY CONTRACTING INITIATIVES



**2022 DESTAQUES** 

82%

of renewable electricity purchased

+230 MW

of long-term renewable electricity already contracted globally

# 3.3 million tons of CO₂e

in emissions avoided over the duration of the contract



# Braskem's strategy seeks to grow its portfolio of biobased products and expand the use of renewable raw materials through strategic and financial partnerships

#### **BRASKEM'S GLOBAL STRATEGY TO 2030**

#### **Growth Avenue Bio-based**

Grow in bio-based resins and chemical products

2023

Increase the use of renewable feedstocks

Objective of expanding production capacity for green products to 1 million tons by 20301

#### **Production of green products** (kton)

Estudos para produção **TBD** de PP Verde nos EUA sustainea ~4302 Joint-venture com **sojitz BraskemSiam** ~200 260 200 60 60 **Expansion of Green Ethylene** 200 200 Green Ethylene, RS, Brazil

2030e<sup>3</sup>

#### **MAIN INITIATIVES**

DBN<sup>4</sup> of the current green ethylene plant

Completion, in 2023, of green ethylene capacity expansion in Triunfo, Rio Grande do Sul, to 260 ktv<sup>5</sup>.



Joint-venture with **SCGC** 

Production of bio-ethylene from bio-ethanol dehydration using the EtE EverGreenTM technology, with green ethylene production capacity of 200kty



Production and commercialization of monoethylene glycol from renewable feedstock (bioMEG), conditioned to technology approval



Partnership with LUMMUS

Partnership to develop and license Braskem's technology to produce green ethylene

Studies to produce green PP in the USA

Studies to evaluate investment in the production of the world's first bio-based PP on an industrial scale in the United States



2022

## **BIOBASED GROWTH AVENUE – GREEN PE**

## Braskem is a pioneer in renewable plastics and a global leader in Green PE

Braskem is the largest global producer of biopolymers, having established in 2010 the first industrial scale Green Ethylene plant, located in Triunfo, Brazil with a production capacity of 260 kt/year upon completion, in 2023, of the green ethylene capacity expansion project

Portfolio of products based on renewable raw materials (ethanol from sugarcane), including Green Polyethylene (Green PE) and Green EVA, serving a wide variety of end customers in different sectors

Winning platform and distinctive capabilities to be the world leader in biopolymers, capable of promoting growth on a global scale

Product portfolio also driving value of our renewable raw materials ecosystem and responsible sourcing best practices

- Applied by **+180 brand owners** ...in over 40 countries
- **Brand protected** in all regions (1) of influence
- Brand internationally recognized
- Several awards earned by clients and Braskem related to innovation and sustainability due to I'm green™ brand





#### I'M GREEN BRAND SELECTED PRODUCT APPLICATIONS











I LOVE ECO









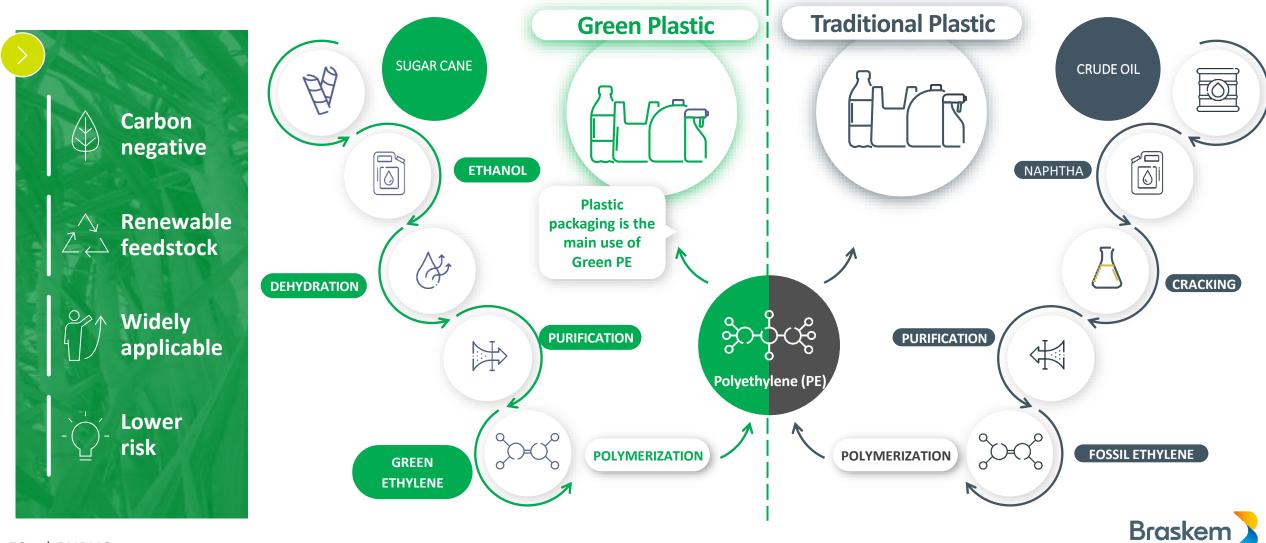


**TOILET PAPER** NEVE



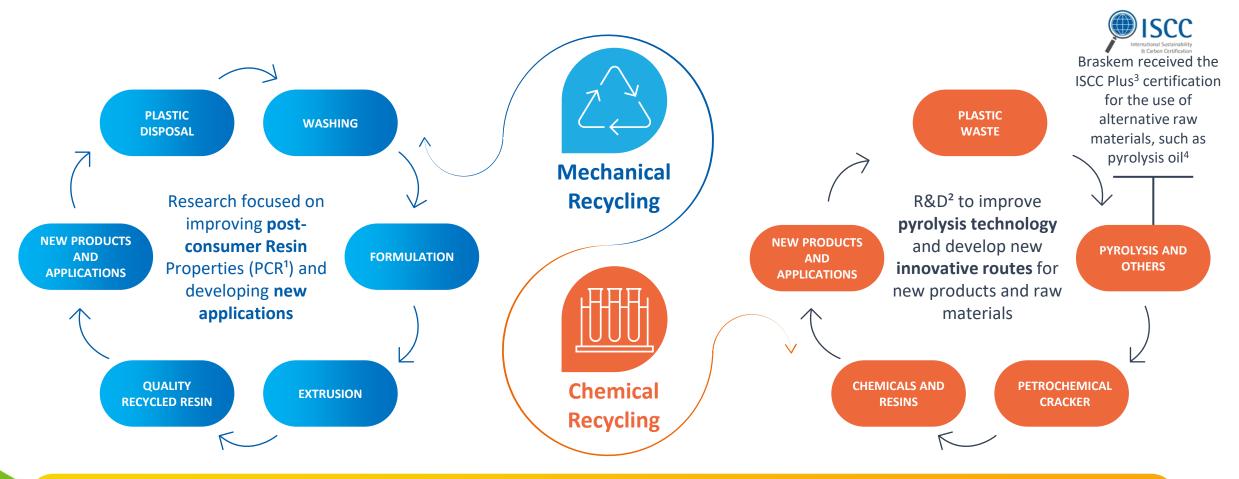
#### **BIOBASED GROWTH AVENUE - GREEN PE**

## Green PE has the same properties as the traditional PE and a distinctive value proposition



#### **RECYCLING GROWTH AVENUE – GLOBAL STRATEGY**

# Braskem's transition strategy to a circular economy is strongly based on mechanical and advanced recycling solutions



The Company is investing to strengthen mechanical and advanced recycling, enabling projects for the development of high-quality PCR<sup>1</sup> and expanding research and innovation through collaboration with strategic partners



#### **RECYCLING GROWTH AVENUE – GLOBAL STRATEGY**

In recycling, Braskem aims to reach 1 million tons of resins and chemical products with recycled content sold by 2030



#### **ELIMINATING PLASTIC WASTE**

#### **LONG-TERM OBJECTIVE**

To increase sales volume of products with recycled content to 1 million tons per year

# SALE OF PRODUCT WITH RECYCLABLE CONTENT - (kt) 1.000 7 2020 2021 2022 2030

#### **BRASKEM'S WORK FRONTS**

SUSTAINABLE PRODUCT PORTFOLIO



Partnerships targeting new technologies

Institute for Sustainable Process Technology



ENVIRONMENTAL EDUCATION AND CONSUMER ENGAGEMENT

33,5kt of recovered plastic in 2022

156% increase compared to 2021

CIRCULAR DESIGN OF APPLICATIONS

Inauguration of Cazoolo, the first packaging development center for circular economy in Brazil





#### **SUPPLY CHAIN MANAGEMENT**

# Braskem strengthens its relationship with suppliers through actions that promotes greater engagement in sustainability

# SOCIO-ENVIRONMENTAL ASSESSMENT AND ENGAGEMENT



- Socio-environmental assessment covers 100% of the new contracted suppliers, which includes the analysis of socio-environmental aspects in two steps: registry and due diligence.
- All new suppliers adhere to Braskem's Code of Conduct for Third Parties.
- Braskem also achieved the engagement of 270 suppliers in the assessment of CDP Supply Chain Climate and CDP Supply Chain Water, with engagement rates of 82% and 72% respectively.

#### **PARTNERSHIP WITH**

# ecovadis

- Braskem has partnered with Ecovadis to reinforce its supplier management program based on ESG criteria
- The partnership allows Braskem to identify risks and opportunities to build actions and initiatives aligned with Braskem's strategy and business goals
- In 2022, 422 suppliers were evaluated in the Ecovadis program

# RESPONSIBLE SOURCING OF ETHANOL PROGRAM



- In 2016, Braskem implemented the Responsible Sourcing of Ethanol Program to ensure integrity and sustainability practices in the cane chain through audits of suppliers and sub-suppliers.
- Braskem Supplier Code of Conduct establishes the operational standards expected from suppliers in their management of human resources, the environment, local communities, quality and efficiency.
- More than 50% of Braskem's ethanol purchased are from Bonsucro certified suppliers, sustainability standard in the sugarcane chain

#### **RECOGNITION AWARD**



- Braskem Supplier Sustainability
  Recognition award highlights the
  ESG best practices of its suppliers
  and encourages actions in
  socioenvironmental
  performance, human and labor
  rights, the environment, ethics
  and sustainable Procurement.
- In 2022, the companies were evaluated based on their scores in the Ecovadis and CDP, resulting in the recognition of 24 suppliers that stood out the most in the period.





#### **RECOGNITIONS**

# For its sustainable performance, Braskem has been recognized over time by organizations specializing in the sustainability topic



One of the most sustainable companies in the world in the petrochemical sector by S&P Global Sustainability Yearbook



Listed for the eleventh consecutive time on the B3 Carbon Efficient Index, due to transparent emissions inventory practices



Recognition by ECLAC and the Brazilian Global Compact Network as one of the most transformative cases for the production of Green PE





Participation in the B3 Corporate Sustainability Index, as one of the most sustainable companies



Gold category 13x consecutive for the inventory of greenhouse gas emissions in the Brazilian GHG Protocol program



2019

One of the 25 best companies in Brazil in promoting diversity and inclusion



2019

Best Brazilian company in promoting women in leadership



Leader in the ranking of water, climate and supplier engagement

2014-2022



Leader for the high level of commitment to sustainable development in the UN Global Compact



#### **FINAL REMARKS**

## Braskem keeps committed in contributing to the sustainable development

- Since its creation, **Braskem has been contributing to sustainable development**, being recognized as one of the leading companies in Brazil and globally on the subject
- Its performance is guided by the corporate strategy of 2030, which incorporates the principles of sustainable development in the decision-making process
- Our strategy is based on a wide risk and materiality assessment process, observing international guidelines
- By 2020, Braskem made significant progress in this area and achieved 85% of the established goals, leveraging business opportunities
- With the goals of 2030 and 2050, Braskem renewed its strategy to strengthen its contribution for the next decades, with the improvement of governance mechanisms
- Braskem remains committed to sustainable development, with a focus on creating value to shareholders from the transition to a carbon neutral circular economy, by using renewable and circular raw materials



# Case Maceió

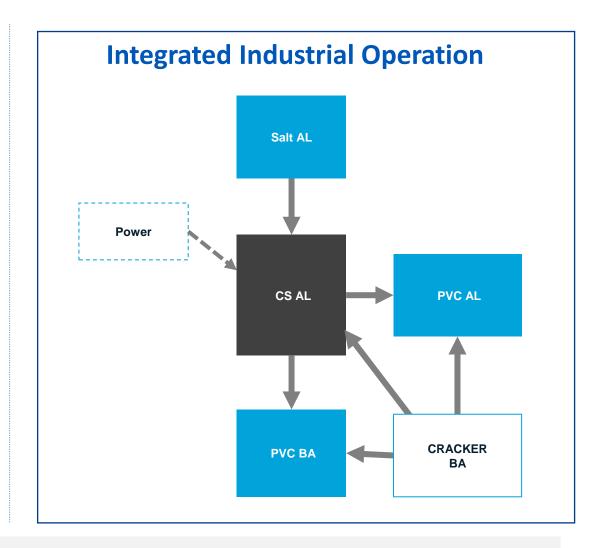


## Braskem in Alagoas: Long presence and commitment to the State

#### Introduction

#### **General information:**

- Start of operations: 1975¹ (through mergers and acquisitions)
- Assets: two plants in Alagoas: (i) Chlor-alkali, in Maceió and
   (ii) PVC, in Marechal Deodoro
- Braskem's commitment in Alagoas is to create value in the region, generating income, revenue and taxes for the state:
  - Even with the interruption of important activities, the Company did not cut any jobs
  - ~500 direct jobs and ~1,900 outsourced jobs²
  - ~1.5 billion reais per year in the economy
  - ~150 million reais in ICMS
  - Pillar of the chemical-plastic chain with several partner companies
  - o 1/3 of the national production of Chlor-alkali



Braskem's operations account for ~3% of Alagoas' GDP and support more than 60 companies in the plastic and chemical chain in the state

## General characteristics about the salt extraction process

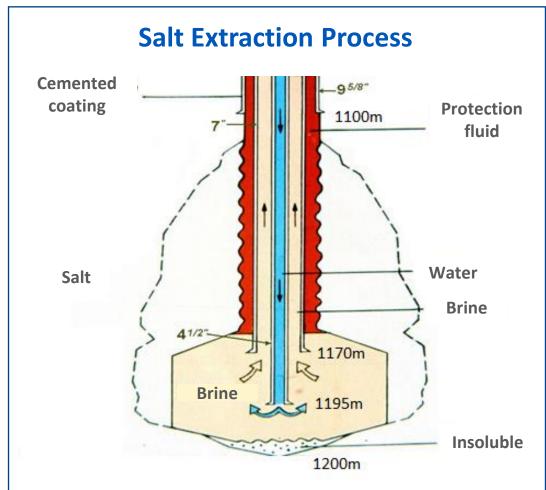
#### Introduction

#### **General Characteristics:**

- **Process**: Rock salt mining by underground dissolution
- **Number of wells**: 35 (vertical and directional wells)
- **Depth**: 900 to 1,200 meters
- **Licensing**: with ANM¹ and IMA², according to Brazilian regulation
- Status: Braskem decided to definitively end rock salt extraction activities in the region of the neighborhoods affected by the geological phenomenon







The water dissolves the salt, thus forming the **brine**, which occupies the space previously occupied by the salt. The pressure of the inserted water forces the excess brine to rise over the surface.

## Geological event in Alagoas: an earthquake occurred in the region in March 2018

Situation in Maceió, Alagoas

# **Geological** Phenomenon in Maceió

- In March 2018, an earthquake is recorded in some neighborhoods of Maceió, capital of the state of Alagoas
- Since then, Braskem has adopted a responsible, transparent and active posture, reinforcing its commitment to people and collaborating with the authorities to understand the geological phenomenon



Aerial view of Mutange, Bebedouro and Pinheiro neighborhoods

# Braskem's actions remains focused on the safety of the region's residents and understanding the geological phenomenon

**Braskem's Focus of Action** 

#### **SAFETY OF PEOPLE**



Removal of residents from risk areas and their resettlement



Financial compensation



Psychological support



Maintenance actions in affected neighborhoods and safety for residents



Actions to prevent disease proliferation through pest control and monitoring

#### UNDERSTANDING OF THE GEOLOGICAL PHENOMENON



Understanding of the geological phenomenon and possible surface effects



Drainage and sewage works



Monitoring of the soil



Studies with sonars to assess the conditions in Braskem's salt wells



Works to permanently close the salt wells

#### **UPDATES ABOUT ALAGOAS**

Main action fronts:

1 RELOCATION AND COMPENSATION

2 SOCIAL AND URBAN MEASURES

3 CLOSURING AND MONITORING OF SALT MINES

4 CONSOLIDATED FINANCIAL PROVISION

## **RELOCATION AND COMPENSATION**

(Status as of 04/30/2024)

Relocation Program Update

99.7%

of the residents' Relocation Program executed by April/24

Update of the Financial Compensation and Relocation Support Program (FCP) proposals in relation to the estimated total:

**Presented** 

Accepted

**Paid** 

99.9%

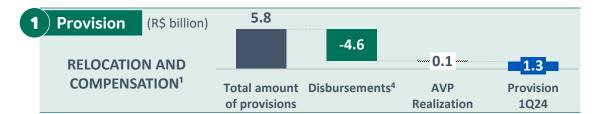
19,139 proposals

98.0%

18,786 proposals

95.7%

18,344 proposals



The overall acceptance rate of the Financial Compensation and Relocation Support Program is 99.4%

2

(Status as of 04/30/2024)

#### **Urban Mobility Actions**

 Of the 11 urban mobility projects, scheduled for completion in 2026,
 07 are in physical execution

#### **Actions in Vacant Areas**

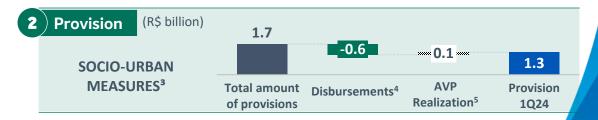
Overall progress of the Encosta do Mutange Project: 72.7%

#### Socio and Urban Action Plan (PAS)

47 validated actions with the signatory authorities of the Agreement

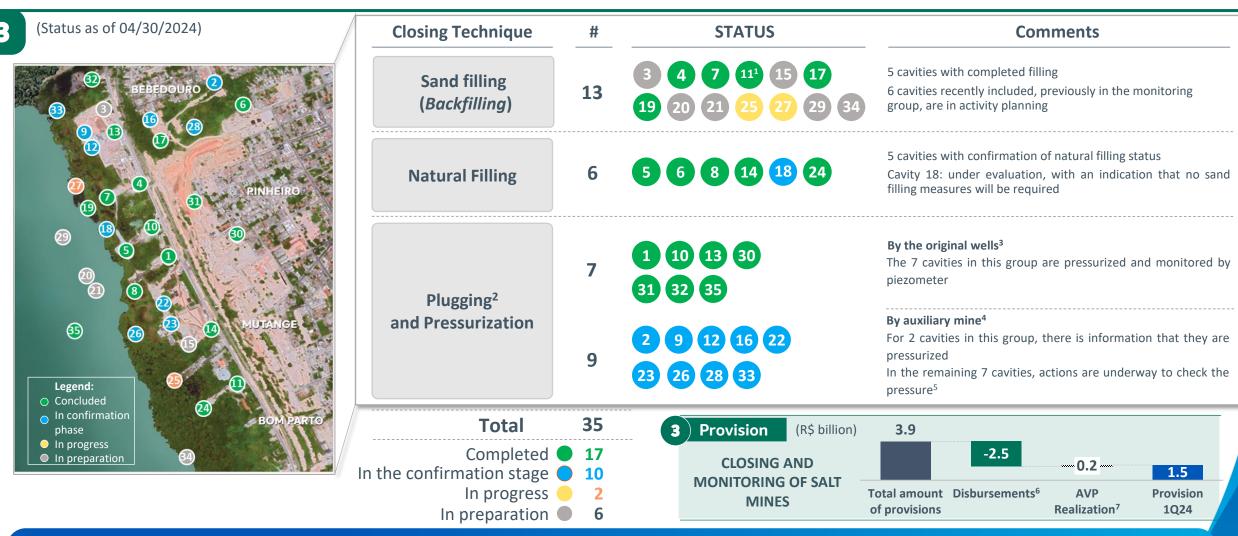
#### Flexal Agreement<sup>2</sup>

- Financial Support Program **(FSP): 1,759** payments completed **(98.6**% of proposals)
- Of the 23 socio-economic measures planned, 14 actions were implemented



The Socio-Urbanistic Measures include actions in Urban Mobility, Social Compensation and Actions in the vacant areas

## **CLOSING AND MONITORING OF THE SALT MINES**



#### The Closing and Monitoring Plan for the Salt Mines is expected to be completed by 2026

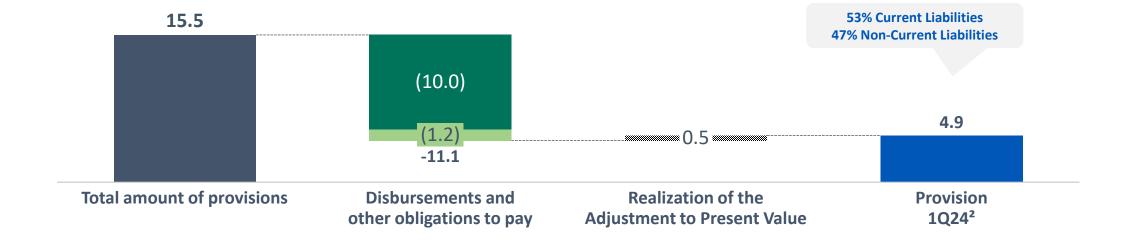
Source: Braskem | General Note: The Company cannot rule out future developments related to the topic or its associated expenses, and the costs to be incurred by Braskem may differ from its estimates or provisioned amounts. | Note (1) Cavity 11 will require an additional volume of sand due to the accommodation identified in the last sonar of March 2024. (2): Buffering consists of the implementation of physical barriers in order to prevent fluid migrations between permeable geological formations through the well and/or migration of fluids to the surface; Note (3): Stages: 1st Pressurization and 2nd Pressure and Temperature Monitoring; Note (4): Stages: 1st interception; 2nd Pressurization and 3rd Pressure and Temperature Monitoring; Note (5): After the pressure check process, additional measures may be necessary; Note (6): Includes payments made and Other obligations to be paid; Note (7): Present Value Adjustment.

## **CONSOLIDATED FINANCIAL PROVISION**

4

#### Total Amount and Balance of Provisions<sup>1</sup>





#### **Other updates**

The implementation of the Environmental Plan actions continues in progress and is expected to be completed in 2028.

Source: Braskem | General Note: The Company cannot rule out future developments related to the topic or its associated expenses, and the costs to be incurred by Braskem may differ from its estimates or provisioned amounts. | Note (1): the total amount of provisions related to Alagoas is R\$15.5 billion, of which: R\$10.0 billion has already been disbursed, R\$1.2 billion has been reclassified to the group of other obligations and the realization of the AVP (adjustment to present value) was R\$0.5 billion; Note (2): the net balance of provisions, at the end of December/23, was approximately R\$ 5.2 billion, and at the end of March/24 it was R\$ 4.9 billion.



# **COMPROMISSOS DA BRASKEM COM MACEIÓ**



Safety of people and social support to impacted residents



Preservation of historical heritage, culture, and cultural practices in evacuation areas



Completion of indemnity for families and merchants in evacuation areas in the shortest possible time



Compensation and interventions to improve public health, education, and social care services in the affected areas



Stabilization and continuous monitoring of soil in affected areas using high-tech equipment



Compensation and interventions for improving urban mobility and social interaction spaces in affected areas



Provide security and management of affected areas



Repair, mitigation and compensation of the environmental impacts in sections affected by subsidence



Training, professionalization and support in generating income for impacted residents



Permanent and transparent reporting

To learn more about the actions and programs, visit: <a href="https://www.braskem.com/compromissosmaceio">https://www.braskem.com/compromissosmaceio</a>

# Outlook for the Future



# **Priorities** 2024

Accomplish the **commitments** established in the agreements signed with the authorities in Maceió



Implement initiatives of **financial preservation**, deleveraging and reduction of cash need, with focus on resilience and financial healthy

**Optimize asset operation strategy** and maintain cost discipline, increasing productivity and competitiveness





Prioritize investments related to the Company's growth strategy, supported by innovation and digital transformation initiatives

Promote discussions regarding Brazilian industry's competitiveness, seeking measures to ensure competitive equality





Complete the construction of the ethane terminal and pursue value-creating initiatives in Mexico

SAFETY is and always will be on focus at Braskem's operations, as a NON-NEGOTIABLE VALUE



# Finally, Braskem has several attributes and characteristics that could potentially attract investors

#### Why invest in Braskem?

#### **GLOBAL COMPANY**

Industrial units located in **Brazil, United States, Mexico and Germany** and Global commercial network, with offices in the **Americas, Europe and Asia**, serving **clients in several countries globally** 

# LEADER IN THE MARKETS THAT WE PLAY

Leader in the Americas and **6th largest producer of thermoplastic resins in the world**; Only integrated petrochemical company in basic chemicals and polymers in Brazil

# **EFFECTIVE COMPLIANCE AND GOVERNANCE SYSTEM**

**Conclusion of external monitoring**, after the fulfillment of the commitments assumed with DoJ<sup>1</sup>, SEC<sup>2</sup> and MPF<sup>3</sup>; **Level 1 of Corporate Governance in B3** 

# CONCRETE CONTRIBUTIONS TO SUSTAINABLE DEVELOPMENT

**World leader in biopolymers** and committed to the **Carbon Neutral Circular Economy** and ESG fundamentals

# CLIENT FOCUSED AND A FUTURE-ORIENTED COMPANY

Commercial strategy focused on partnership and proximity with clients and implementation of digital initiatives, with the goal of transforming our core business and also creating new business models

# RISK MANAGEMENT AS PART OF THE CORPORATE STRATEGY

**Geographic and feedstock diversification strategy** to increase business profitability and mitigate risks and also a **natural hedge against currency fluctuation** 

#### **ROBUST FINANCIAL STRATEGY**

**Strong liquidity position**, with most debt maturing in the long term and **consistent operating cash generation**, even in periods of down cycles in the petrochemical industry

# INVESTOR PRESENTATION

2024

## **Investor Relations**

IR website: <a href="https://www.braskem-ri.com.br/">https://www.braskem-ri.com.br/</a>

E-mail: braskem-ri@braskem.com.br

Phone: +55 (11) 3576-9531









