



# Chemical Business



# You dream and we perform together

We are a company with worldwide presence operating in more than 70 countries, and part of our work is to apply intelligence in raw materials that reach people's daily lives in the form of products designed to meet the needs modern life.

## Innovation and Sustainability for a better future

We seek to become a benchmark in chemical safety, contributing to reduce the intensity of greenhouse gases (GHG) emissions, increase water and energy use efficiency.

Being the largest producer of thermoplastic resins from renewable raw materials, we remain committed to collaborate with actions to mitigate the impact of post-consumption plastic waste.

We are also engaged in initiatives with transformative potential focused on the potential to transform, which focus on social inclusion, education in environmental preservation.

## Green Plastic

As a result of our commitment to innovation, we offer the market Green Polyethylene, made from sugarcane ethanol, a raw material from renewable sources.

Green Polyethylene has the same characteristics of petrochemical polyethylene, ensuring its use in the same applications and equipment in which customers process the traditional resin, in addition, it is recyclable in the existing processes for recycling petrochemical polyethylene.



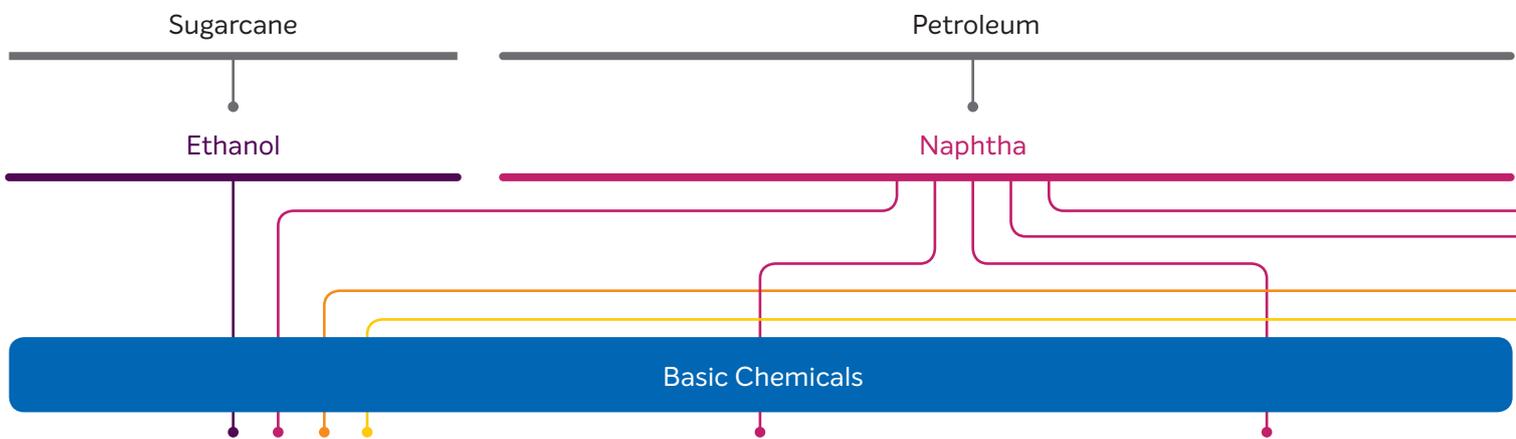
be green  
be innovative  
be recyclable



Sugarcane absorbs CO<sub>2</sub> from the atmosphere during its growth, ensuring the positive impact of Green Polyethylene on the environment.

# Chemicals Business

Focused on developing solutions and better serving its Clients, Braskem offers a diversified portfolio of products and a commercial structure qualified to meet the demands of a wide range of industries. The following chart shows how our production capacity is organized.



Olefins	
	(kta)
Green Ethylene	200
Ethylene	3,752
Propylene	1,585
Butadiene	466
1-Butene	66
Crude C5	40
Isoprene	26

Aromatics	
	(kta)
Benzene	969
Toluene	195
Orthoxylene	75
Paraxylene	203
Mixed-xylenes	190
Cumene	320
Carbon black feedstocks	230

Fuels	
	(kta)
ETBE + MTBE	330
Automotive gasoline	1 million (m <sup>3</sup> )





## Natural Gas

Ethane

Propane

## Performance Chemicals

### Solvents

(kta)

Aromatics	420
Aliphatics	280
Hydrogenated	40

### Specialties

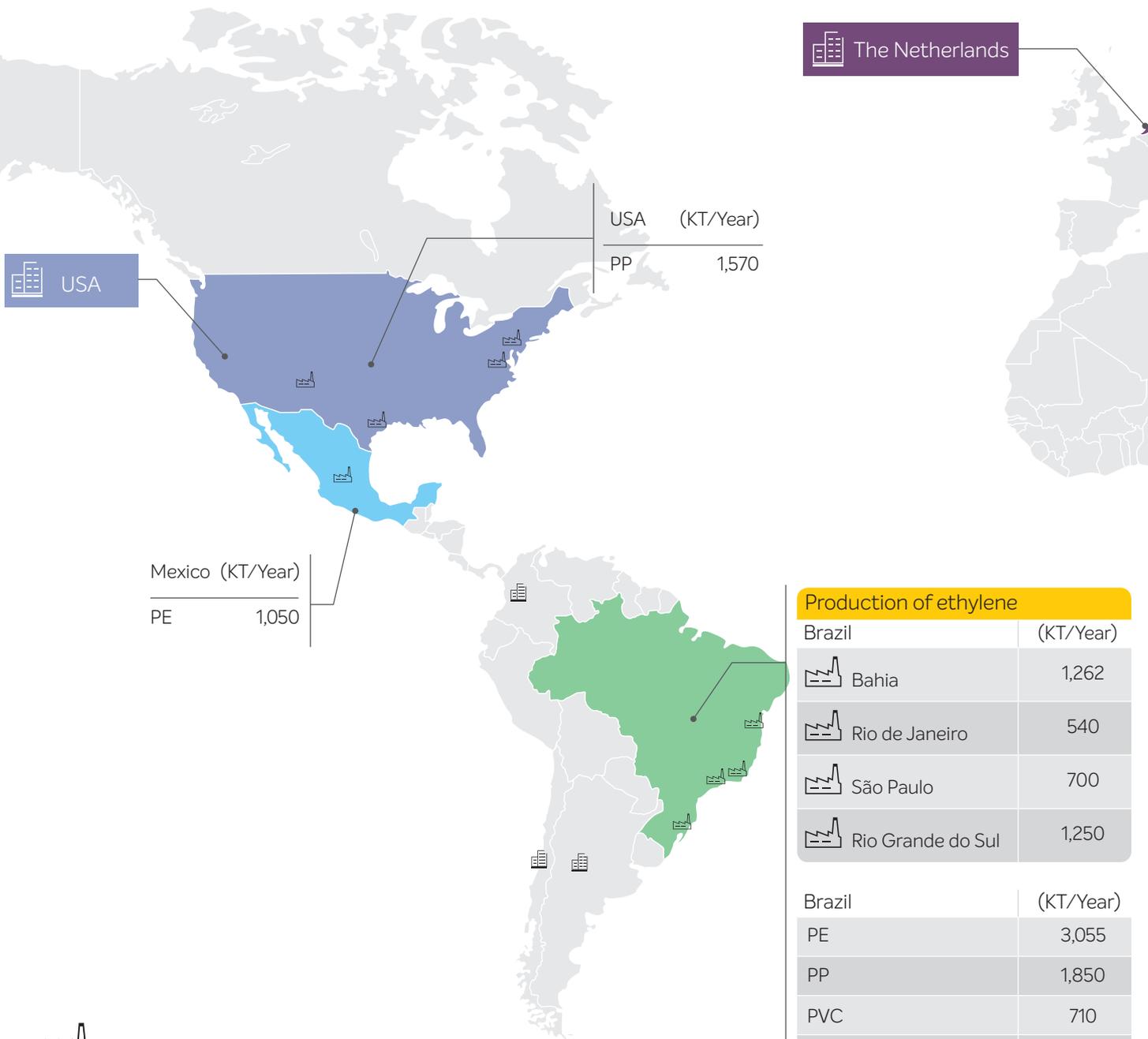
(kta)

Braskem PIB	36
HCR C5 and C9	19
DCPD	33
Nonene	27
Tetramer	27
Piperylene	31



# Global presence with local efficiency

41 Industrial Plants around the World



 USA

USA (KT/Year)	
PP	1,570

Mexico (KT/Year)	
PE	1,050

 The Netherlands

### Production of ethylene

Brazil (KT/Year)	
 Bahia	1,262
 Rio de Janeiro	540
 São Paulo	700
 Rio Grande do Sul	1,250

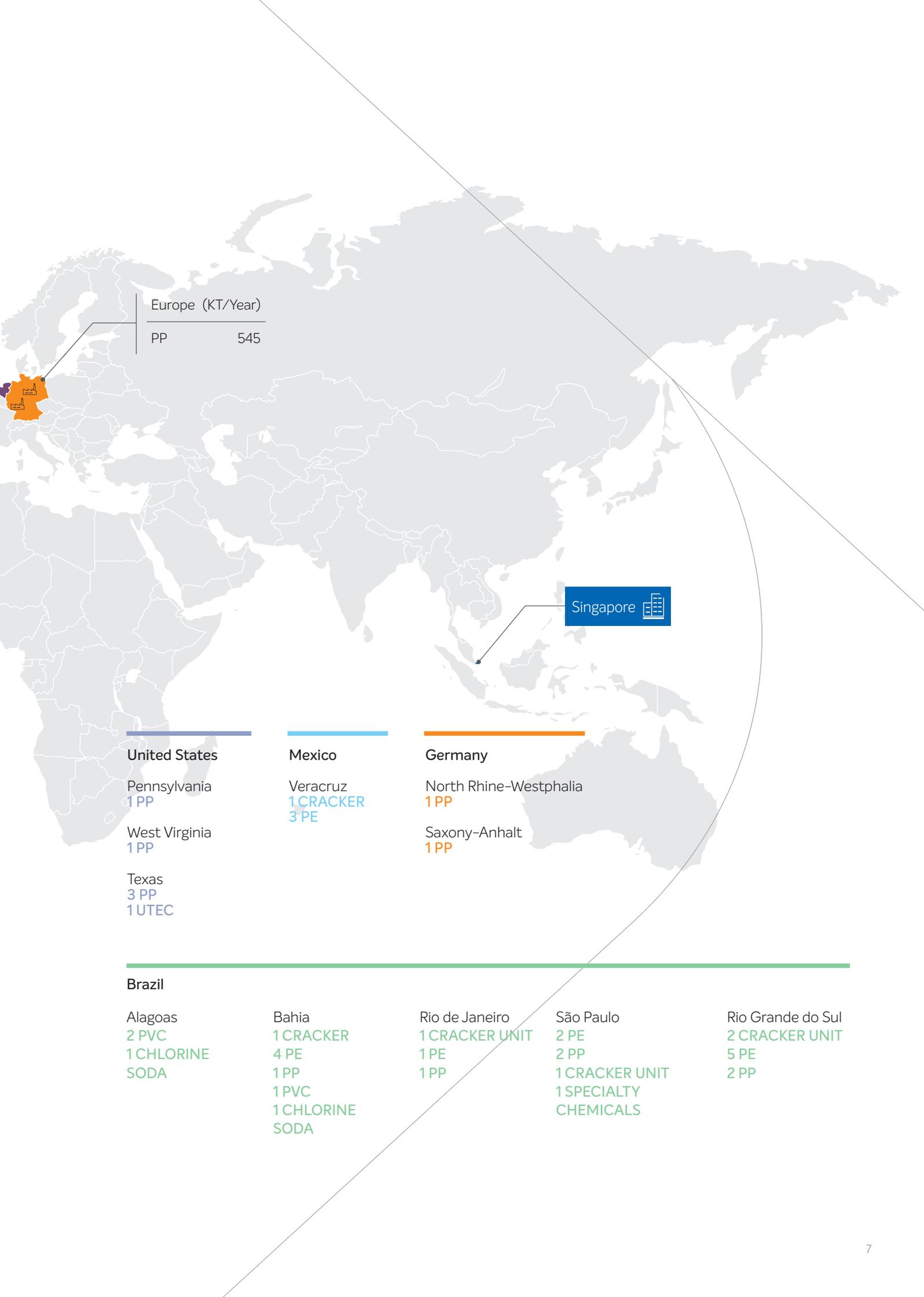
Brazil (KT/Year)	
PE	3,055
PP	1,850
PVC	710
Caustic Soda	593



Industrial Presence



International Office – Chemicals Business



Europe (KT/Year)

PP 545

Singapore 

**United States**

Pennsylvania  
1 PP

West Virginia  
1 PP

Texas  
3 PP  
1 UTEC

**Mexico**

Veracruz  
1 CRACKER  
3 PE

**Germany**

North Rhine-Westphalia  
1 PP

Saxony-Anhalt  
1 PP

**Brazil**

Alagoas  
2 PVC  
1 CHLORINE  
SODA

Bahia  
1 CRACKER  
4 PE  
1 PP  
1 PVC  
1 CHLORINE  
SODA

Rio de Janeiro  
1 CRACKER UNIT  
1 PE  
1 PP

São Paulo  
2 PE  
2 PP  
1 CRACKER UNIT  
1 SPECIALTY  
CHEMICALS

Rio Grande do Sul  
2 CRACKER UNIT  
5 PE  
2 PP

