



#### **SOLVAY**

&

Karneet Enterprises (INDIA) Pvt Ltd (KEIPL)

## Introduction



## Agenda



## **W** Solvay Overview

- ➤ Capacities, Supply Chain System
- **>** Quality
- **➤** Logistics
- **\*\*About KEIPL & Solvay Partnership**





## Capacities, Supply Chain System



#### **Our Benefits**



- ★Solvay is a global leader in Soda Solvay® using two different processes: the traditional Solvay ammonia process and the refining of natural Trona (or sesquicarbonate)
- ★Offering both natural and synthetic Dense and Light - Soda Ash
- Providing safety of supply through global network of plants
- Having a unique global reach thanks to logistics networks



## Capacities, Supply Chain System



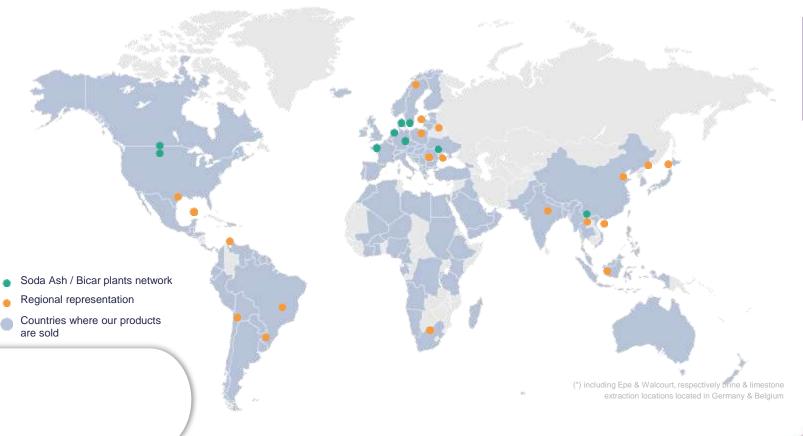
- Combined Solvay Soda Ash capacity is nearly 7.5 Million Tons
- **W**Eleven plants in different locations
- Solvay's global supply chain capability benefits from multiple sourcing opportunities
- WNatural Soda Ash capacity at USA is 2.8 Million Tons
- Serving customers, both across Europe, the USA, and, specifically in many export destinations

Source-Solvay amd other news media





## SOLVAY SA&D: A global network of plants to better serve our customers



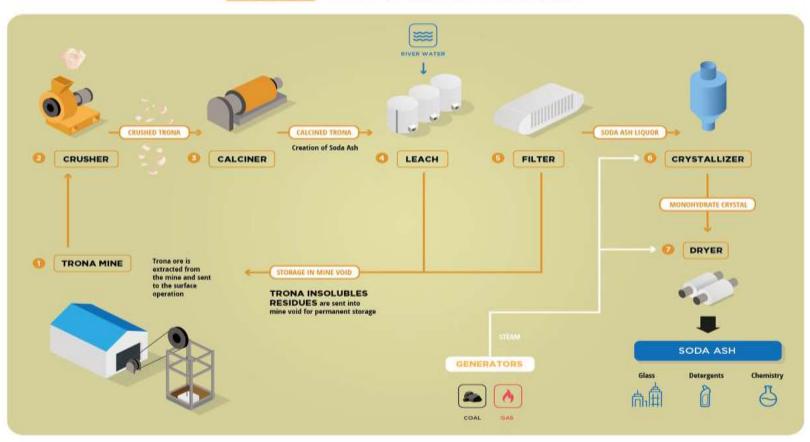




#### **TRONA Based Mono Process**



#### TRONA BASED MONO PROCESS





# Spotlight on Solvay Trona operations in Wyoming (USA)



#### Capacity



#### Climate



#### Technology



#### Logistics



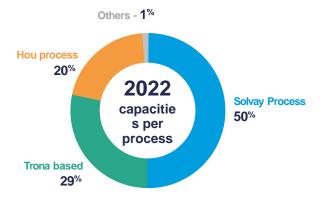


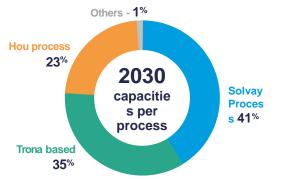
# The world needs Trona AND Solvay process











63% of the expected new capacity by 2030 will be from natural process 27% from HOU process (China mostly), subject to the ammonium chloride market

Sources: CMA and Solvay internal market intelligence

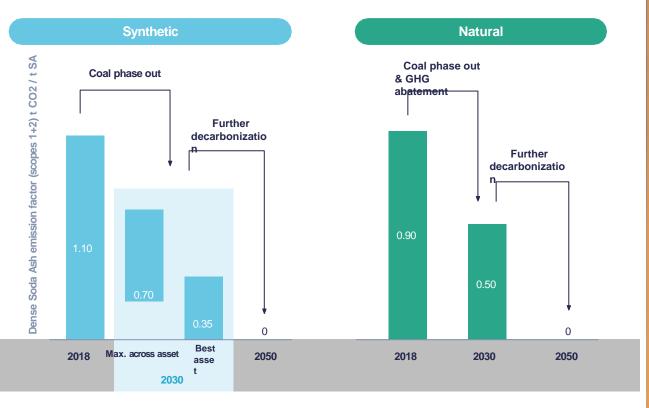
Trona deposits in USA

Source-Solvay



# Clear path towards carbon neutrality by 2050







Source: Company data





## Quality



## Natural – Solvay Soda Ash Dense



- ★The dense grade has a bulk density of ~1 t per m3 and a Particle-Median-Diameter (D50) of 300 to 500 microns.
- ★Solvay Soda Ash Dense is the grade preferred for glass manufacture because its granular properties make it widely dustfree and reduce the risks of segregation during transport and handling



## Soda Solvay Dense





**W** CAS Number- 497-19-8

Soda Ash - Soda Solvay® DENSE, Sodium carbonate, Solvay soda ash, neutral sodium carbonate, ammonia soda, carbonated soda, Carbonic acid disodium salt



## **Quality and Chemical Properties**



		Chloride Content (as Na2Cl) %	Fe Content (as Fe)
Typical Synthetic Process*	99.2 - 99.3	0.30 - 0.70	0.003 - 0.004
Typical SOLVAY Natural Soda Ash	99.8	0.03	0.0005

- Synthetic-process sodium chloride levels are 10 to 20 X higher than Solvay natural soda ash impacting furnace and mold life
  - SOLVAY soda ash <u>assay</u> is higher and more <u>consistent</u> with Green River as a single source vs. many different synthetic-process plants
  - SOLVAY Natural soda ash iron content and <u>overall impurities</u> are lower providing advantages to many chemical processes

dense

<sup>\*</sup> High-purity





## Logistics



## Logistics



- ★Solvay, a global leader in the soda ash market, and <u>VBT</u>, a bulk commodity shipping and logistics expert partnership to collaborate on the redevelopment of Terminal 2, Berth 7 at the Port of Vancouver USA, in Washington state
- The newly designed terminal will have the capability to annually process more than 2.5 million tons of soda ash





## About KEIPL & Solvay Partnership



# About KEIPL & Solvay Partnership



- KEIPL is only Exclusive Distributor for PAN India for – Solvay Bulk Soda Ash Dense
- Solvay and KEIPL strategic partnership will help Indian customers
- KEIPL -The first Soda Ash Dense from USA, cleared in India
- Experience of handling more than 700 KT of Dense Soda Ash from USA –providing end to end solutions
- Warehouses at 8 different locations in India





# Solvay and KEIPL are ready to deliver best Soda Ash Dense for Indian Market.

### For any enquiries please contact

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Thank You