

Not all soda ash is created equally

5.2 million

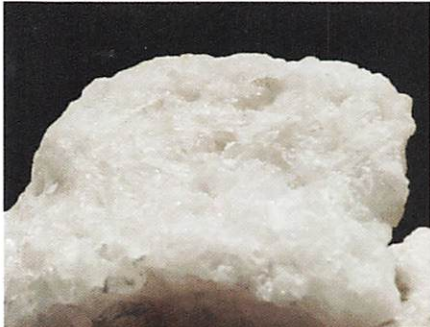
WE PRODUCE 5 MILLION TONNES OF SODA ASH AND SODIUM BICARBONATE PER YEAR

80

~80 COUNTRIES USE OUR PRODUCT

2 billion

ALMOST US\$2 BILLION INVESTED IN PRODUCTION ASSETS



Natural advantage

Our Soda ash originates from trona, a naturally occurring mineral from geological deposits in Turkey. It is produced by cavern-based solution extraction.

Warm water is pumped into the ore body, where it dissolves into brine which is evaporated and purified at our two facilities, Eti Soda and Kazan Soda to make soda ash (sodium carbonate) and smaller quantities of sodium bicarbonate.

Our carbon footprint is now certified Carbon Clear™

The carbon footprint of our products is 0.26 tonnes of CO₂e per tonne of product, for our Kazan Soda production and 0.29 for Eti Soda. This is the lowest emissions intensity in the soda ash industry.

Our footprint has been independently verified CarbonClear™. An independent carbon emissions intensity certification programme, developed and managed by Intertek. Their methodology uses existing independent standards for LCA and product carbon footprint, as well as extractive industry sector specific rules.

The emissions covered in our published footprint included:

- **Upstream** – Greenhouse gas (GHG) emissions occurring from the production of purchased goods for production
- **Core** – GHG emissions occurring from sources and processes that are owned or controlled by WE Soda and our purchase of grid electricity.



Enables better decision making to reduce life-cycle emissions from soda ash products



Provides independent verification of carbon intensity



Creates clear distinction that not all tonnes are produced the same



Life's invisible ingredient

1

Our carbon footprint has been independently verified as accurate.

2

WE Soda product has ~one third of the emissions of average EUR synthetic product.

3

Our low carbon footprint, enables our customers and their customers to reduce their scope 3 emissions.

4

We are committed to reducing our carbon footprint, with short- and medium-term targets and a commitment to net-zero by 2050.



Enquiries

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WE Soda product has ~one third of the emissions foot print

There are four ways to produce soda ash; **solution extraction, which accounts for 7% of global production**, conventional mining, (22%) synthetic manufacturing using the ammonia process (50%) or another synthetic process, Hou (22%).

There is robust evidence that natural ash compares favourably to synthetic soda ash:

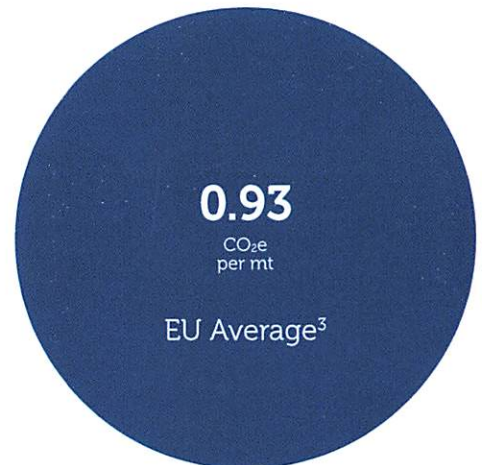
- Independent studies¹, based on publicly available data², commissioned by WE Soda, for internal use concluded that **our carbon footprint is around one third of the emissions of the average European based synthetic plant**
- EU calculated average carbon intensity of European (synthetic) soda ash production facilities was 0.926 mt CO₂e per tonne of product. This resulted in a benchmark for the EU ETS of 0.753³. **Our intensity, at between 0.257 and 0.290 is much lower** (noting that our figures includes emissions from cradle to gate in our operations, that are not factored in the EU numbers)
- Therefore, we argue, that choosing natural soda ash, over synthetics, is an effective route for our customers and their customers to reduce their scope 3 emissions.



Kazan Soda
Bulk Soda
Ash^{4,6}



Eti Soda
Bulk Soda
Ash^{5,6}



We are committed to further reductions

We are committed to further reducing our carbon emissions, we have the following group level carbon emission intensity reduction targets: **20% by 2027, 40% by 2032 and net-zero by 2050.**

To reach these targets we are:

- Installing more onsite renewable energy generation capacity
- Purchasing a greater quantity of renewable electricity from the grid
- Exploring the use of carbon capture, liquefaction, utilisation and storage.

Source: (1) NexantECA Analysis (2) EU BREF LVIC 2007 (3) Update of benchmark values for the years 2021 – 2025 of phase 4 of the EU ETS, <https://www.environdec.com/library/epd10666> (4) <https://www.environdec.com/library/epd10667> (5) CO₂e per mt (6) Based on Life Cycle Analysis methodology for CO₂e emissions intensity of a product on a per mt of bulk soda ash. The 2023 reported CO₂e intensity for WE Soda of 0.334 mt of CO₂e per mt of soda ash is based on a GHG protocol calculation for the combined production facility emissions from Eti Soda and Kazan Soda, which includes other operating emissions.