

# Lava solar container is good for soda ash

<div class="df\_qntext">Can CO<sub>2</sub> be used for soda ash production?

Capturing CO<sub>2</sub> from cement plant flue gases and using it for sodium carbonate production can reduce the environmental impact of this chemical. The stored CO<sub>2</sub> can be used in the production of soda ash using sustainable clean methods. However, storing and maintaining CO<sub>2</sub> from cement plants and other industries pose additional challenges.

<div class="df\_qntext">Is soda ash bad for the environment?

The production of soda ash using traditional methods such as the Solvay process can have negative environmental impacts.

<div class="df\_qntext">What is soda ash used for?

Nowadays soda ash is an important commodity chemical used as raw material for the glass melt and for reacting with sand. (1) It is also used to neutralize inorganic and organic acids and in the production of sodium salts in the detergent and soap industry.

<div class="df\_qntext">What is the fastest growing soda ash demand sector?

Solar glass, a type of flat glass used in solar photovoltaic (PV) panels, has been the single fastest-growing soda ash demand sector. Flat glass is the largest glass segment, which is used for residential and commercial buildings, automobiles, and more.

<div class="df\_qntext">How much CO<sub>2</sub> does a soda ash absorber use?

The most promising CODA variant (cross-flow packed absorber and two-step crystallization) consumes about 0.15 tons of CO<sub>2</sub> from the air and earned nearly 200 USD/ton soda ash, making CODA an attractive alternative that deserves to be scaled-up. CC-BY 4.0 . Copyright © 2025 The Authors. Published by American Chemical Society

## 1. Introduction

<div class="df\_qntext">Is lithium carbonate the future of soda ash?

Lithium carbonate is still a minor global application of soda ash but is projected as one of the fastest-growing soda ash demand segments, driven primarily by the demand for electric vehicles (EVs) and energy storage.

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As the construction, automotive, and consumer packaged goods industries employ new technical and functional requirements for their glass products, the demand for high-quality soda ash is increasing.



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The manufacturing of glass accounts for about 50% of the produced soda ash. Soda ash is used in two glass types, flat and container glass. Container glass is used in holding beverages, ...

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