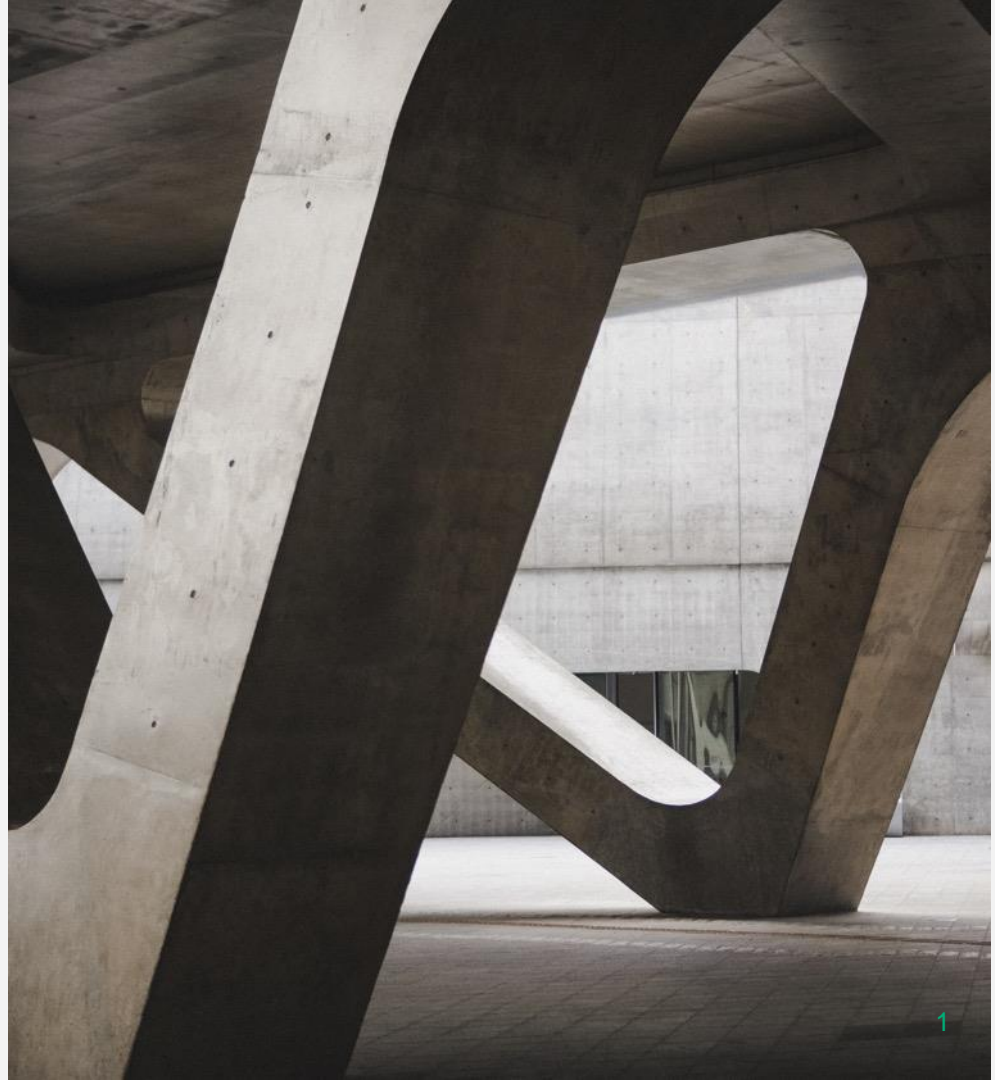




Decarbonizing Concrete



Our Vision

A world where carbon is a sustainable resource,
unlocking a new frontier of circular materials



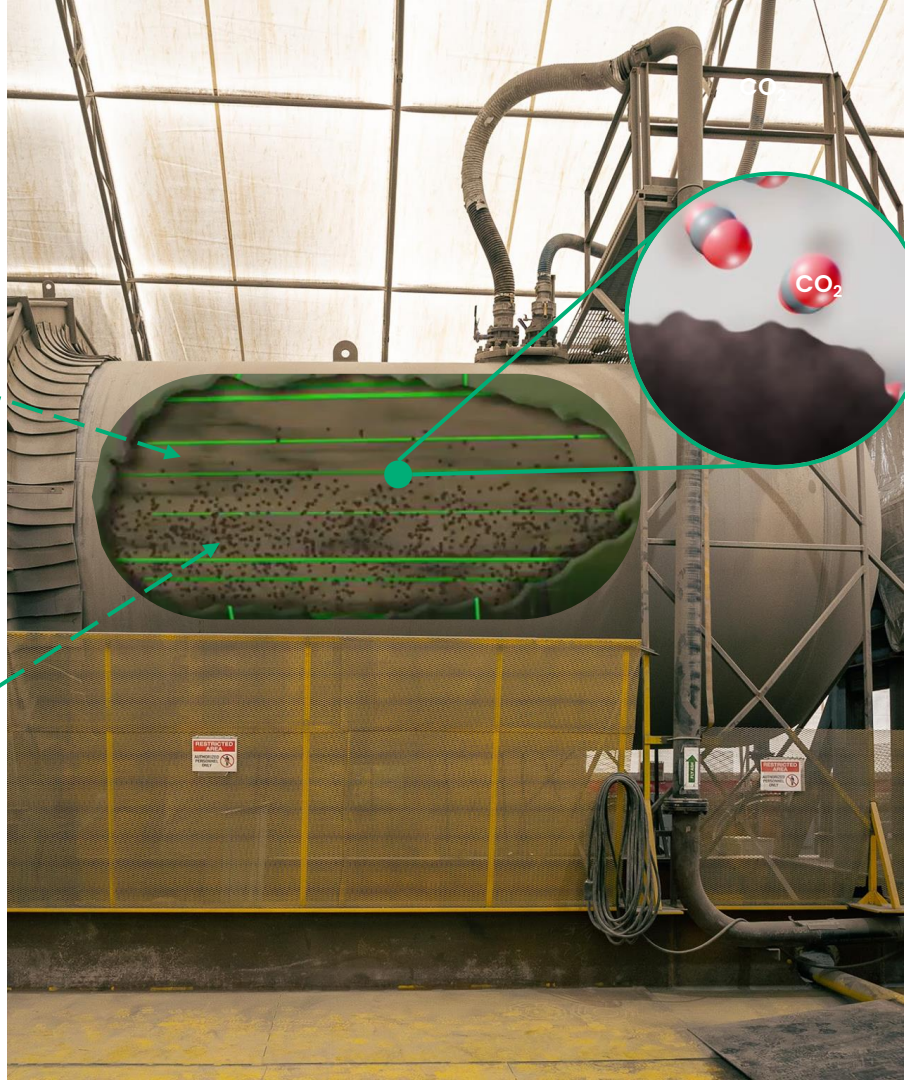
How it works



CO₂
Industrial point-source
low-purity flue emissions



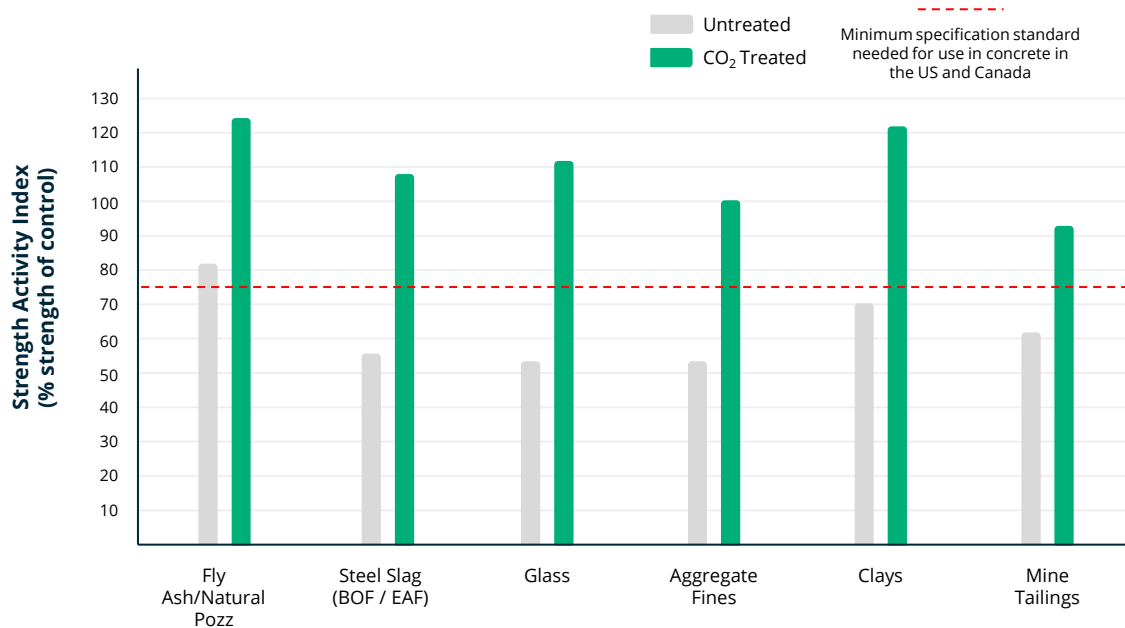
**Material
Feedstock**
Industrial waste by-
product or natural
mineral



Our Product
CO₂-Enhanced
Materials

carbon upcycling

Carbon Upcycling transforms low-reactivity materials into SCMs that surpass the minimum standards for use in concrete



Over **30** varieties of feedstocks has been tested and verified, providing flexibility and versatility in deployment opportunities for our cement partners

All feedstocks are tested and verified by third-party labs

Tackling Two Massive Problems

Unmanageable Amounts of Industrial CO₂

Heavy industrial emitters (steel, cement, chemicals, etc) account for a large portion of our global carbon emissions – the cement industry alone accounts for 8% of annual global emissions, due to the inherent high-heat chemical and thermal reactions that occur in the kiln to create cement.

Landfills of Industrial By-Products and Natural Minerals

Annually, over 10 billion tonnes of industrial by-products are sent to and stored in landfills, and millions on tonnenes of natural minerals remain underutilized. Without finding a mitigation or utilization pathway for these materials, these mounds of waste will continue to rise and further pollute our planet.

carbonupcycling.com

NOT FOR DISTRIBUTION



Scaled by 1,000,000X in 6 years



Minnesota DOT and the National Road Research Alliance independently funded a trial to evaluate the ability of 16 various lower-carbon products to achieve a sustainable and durable concrete mix for an active section of highway



Practicing Companies/Products



Carbon Upcycling's mixture design accomplished the **highest reduction** in cementitious material of all designs submitted

	Total Cementitious Content (lbs / cubic yard)	SCM %	Emissions Reduction vs. Control (kg CO2e / cubic yard)
MnRoad Control (SCM = Fly Ash)	570 lbs	30%	Baseline
Carbon Upcycling (SCM = CO ₂ Fly Ash)	500 lbs	30%	- 15.8%
Other Company 1 (SCM: Manufactured Fly Ash)	570 lbs	35%	- 6.4%
Other Company 2 (SCM = Fly Ash)	558 lbs	30%	-2.1%



First Projects: UK

First deployment of technology in Mainland Europe

Location Rugby, England

Partner  CEMEX

Feedstock Waste Glass



Thank you!

info@carbonupcycling.com
403-862-3712



We have traction with the largest global companies

Active in Carbon Upcycling
Feedstock Testing Program

Project Development
& MOU Discussions

