



Global Cement and Concrete
Association

CONCRETE FUTURE

The GCCA 2050 Cement and
Concrete Industry Roadmap
for Net Zero Concrete

CO₂
Emissions

Initial
Progress

Decade
to deliver

Completing
the net zero
transition

OUR PATH TO NET ZERO - PAST, PRESENT AND FUTURE ACTIONS

We *can* achieve our
net zero ambition

1990-2020

2020-2030

2030-2050

NET ZERO

0

1990 to 2020 Initial progress

The decade to make it happen

Full deployment of technologies to get to zero

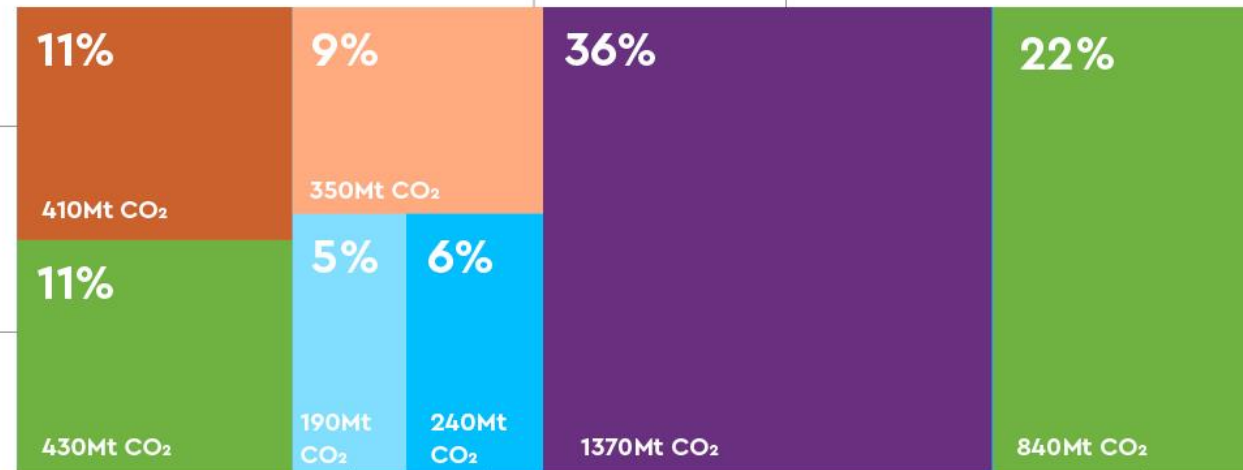
ACTIONS TO A NET ZERO FUTURE

Savings in clinker production

Savings in cement and binders

Carbon capture and utilisation/storage

PERCENTAGE CONTRIBUTION TO NET ZERO AND CO₂ EMISSION SAVINGS IN 2050



Efficiency in concrete production

Decarbonisation of electricity

CO₂ sink: recarbonation

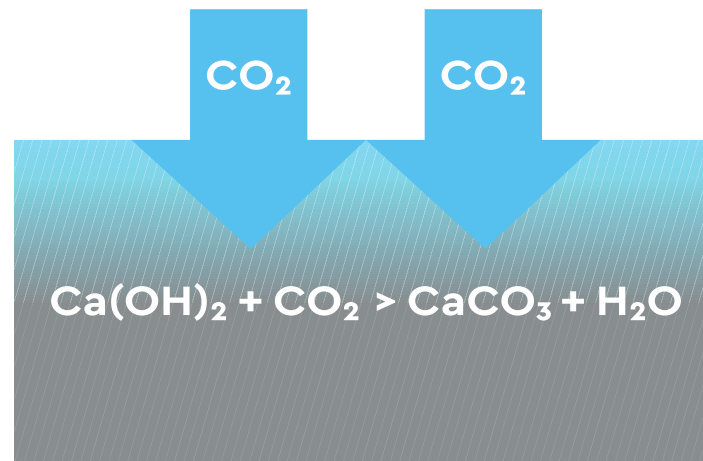
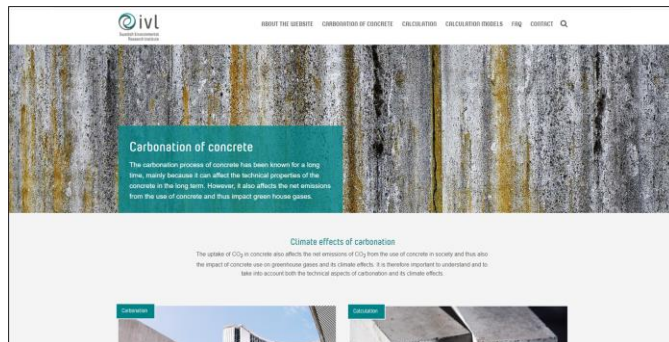
Efficiency in design and construction

Concrete contribution to the low carbon economy and to carbon removals

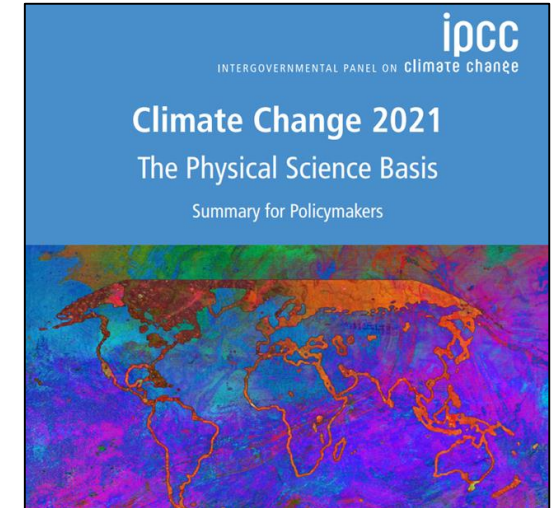
- "Sink associated with cement carbonation" [IPPC 6th Assessment Report]
- Concrete is a CCU option delivering permanent storage.

Potential applications include :

- manufacture of artificial aggregates
- curing concrete
- carbonation of recycled concrete



Concrete as a carbon sink



UNLOCKING A NET ZERO FUTURE – THE ROLE OF PUBLIC POLICY

Public policy will play a central role in the ability of the industry and the wider value chain to decarbonise cement and concrete over their lifecycle. A comprehensive policy framework will need to be developed. This will be a joint endeavour by industry, policymakers and governments, to:

- **make low-carbon cement manufacturing investable**
 - **stimulate demand for low-carbon concrete products**
 - **create the infrastructure needed for a circular and net zero manufacturing environment.**
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- Support CCUS, providing fair recognition of all carbon capture technologies with adapted carbon accounting
 - Support the provision of, and access to transport and storage infrastructure



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