



SCM's & Clinker Factor Reductions

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OUR ABSOLUTE SCOPE 1 + SCOPE 2 EMISSIONS PATHWAY

83
MT CO₂

2022

2030

0
MT CO₂

2050

16%

10%

5%

10%

10%

44%

5%

- EFFICIENCY GAINS IN DESIGN + CONSTRUCTION
- EFFICIENCY GAINS IN CONCRETE
- DECARBONIZATION OF ELECTRICITY
- LESS CLINKER IN CEMENT (CLINKER FACTOR)
- LESS CO₂ IN CLINKER (THERMAL SUBSTITUTION RATE, ALTERNATIVE RAW MATERIALS, EFFICIENCY)
- CCUS, OTHER TECHNOLOGIES
- PASSIVE RECARBONATION

GREENER FORMULATIONS FROM CONSTRUCTION & DEMOLITION WASTE TO CALCINED CLAY



Multiple alternative materials in our green formulation portfolio

- Limestone
- GGBF Slag
- Fly Ash & Bottom Ash
- Steel & Air Cooled Slags
- Expanded Shale
- Pozzolana
- Calcined Clay
- Mineralized products
- CDW Fines
- ...and more

GREENER FORMULATIONS



Broad range of alternative materials
from construction and demolition waste to calcined clay



DECARBONIZING CONSTRUCTION BROADEST RANGES OF LOW-CARBON MATERIALS

**BUILDING
BETTER
WITH LESS**



ECO Pact



Arca, Milan



Eight Gardens, London



ECO Planet



The Spheres, Seattle



Iconic Tower, Egypt



100% Performance - At least 30% less CO₂



HOLCIM