

Decarbonization Strategy

July 2023

Future in Action Program





Decarbonizing our operations requires having a holistic approach

Scope 2 Scope 1 Scope 3 INDIRECT DIRECT INDIRECT Carbon Fuel burning in related activities in the supply chain Fuel burning Fuel burning and Sinks in power plants decarbonation in own facilities & biodiversity in quarries) wer Plants Electricity supply Offices Recycled End of Life Treatment Demolition Waste Cement Fuels & Electricity Recarbonation Travel & Commuting of Employees Distribution of products Use of sold products Ready-Mix 0 002 Aggregates Downstream activities Upstream activities

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Short – Mid Term Strategies

Scope 1	Scope 2	Scope 3
 Alternative Fuels 	 Solar / Wind Plants 	 Fleet optimization
 AF aided by Hydrogen Blended Cements (SCMs) Limestone Pozzolanic Cements Ternary Cements 	 Virtual Power Purchase Agreement Waste heat recovery Projects 	 Renewable Diesel Hybrid and Electrical Vehicles Imports optimization
 Decarbonated Raw Materials Operational Efficiency 	 RECs strategy 	 Energy sourcing optimization
Our 2030 aoals rely on proven technologies but there are challenges to full implementation		

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Mid-Long Term Strategy Innovation

- Carbon Capture & Storage
- CC & Utilization (new products)
- Hydrogen
- Electrification
- SCMs activation
- Micronation
- Mineralization
- Admixtures





Decarbonization Challenges

- Lack of alternative fuels availability due to limited incentives and incompatible regulations to divert waste from landfills.
- Massive retrofits investments required to produce and handle blended cement products across the supply chain
- Reduced sources of Supplementary Cementitious Materials (SCMs) that do not require beneficiation or other approvals susceptible to protracted processes.
- Limited flexibility in product standards (prescriptive-based vs performance-based).
- Absence of incentives / regulations to prioritize the use of lower carbon products, although we are beginning to see more Buy Clean laws
- Expensive Carbon Capture solutions together with limited sequestration hubs available to cement plants and long lead time permitting processes.
- Novel technologies not yet economically viable for escalation



Closing Remarks

Our industry is committed to do its part but can only do so much unless....

- We have cohesive, supportive policies to support these efforts
- Government and regulators provides the incentives and standards required to accelerate the decarbonization efforts. The passage of the Bipartisan Infrastructure Bill and the IRA are a great start.
- Stakeholders across the value chain embrace and adopt lower carbon products, from the design community supporting performance-based standards & end users.
- Innovation is key
- Associations to support and promote industry collaboration around Novel Technologies, to scale solution faster and reduce overall risk.





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