



November 30, 2022

California Air Resources Board
P.O. Box 2815
Sacramento, CA 95812
[submitted electronically]

RE: Charm Comments On Kick-off Workshop for Net-Zero Emissions Strategy for the Cement Sector

Charm Industrial (Charm) appreciates the opportunity to submit comments to the California Air Resources Board (CARB) on the Kick-off Workshop for Net-Zero Emissions Strategy for the Cement Sector. Charm is a California-based company working in support of State efforts to rapidly drive down greenhouse gas emissions (GHGs) on the path to carbon neutrality. Our innovative negative emissions technology can play a key role in these efforts. We look forward to continuing to work with CARB, its state agency partners and all stakeholders to deliver innovative climate solutions that will provide benefits in California and beyond.

About Our Technology

Charm has developed a proven carbon dioxide removal technology that has already removed thousands of tons of carbon from the atmosphere. Our innovative approach converts waste biomass into carbon rich liquid that is safely and permanently stored underground. Agricultural waste and highly combustible forest residue that would otherwise burn or be left to rot spewing GHGs into the atmosphere is instead transformed into a carbon benefit. In addition to the vital climate benefits that negative emissions technologies like bio-oil sequestration provide, our approach delivers critically needed air quality, wildfire resilience, and economic benefits in parts of California that most need them like the Sierras and the Central Valley.

Charm Supports CARB's Efforts to Develop a Net-Zero Emissions Strategy for the Cement Sector & Across all Sectors of California's Economy

Charm supports CARB's development of a comprehensive strategy for the state's cement sector to achieve net-zero GHG emissions associated with cement used within the state. California is going to need a host of strategies to decarbonize virtually every economic sector in the state to achieve carbon neutrality. Direct emissions reductions should be the primary focus of California's pathway to carbon neutrality. In addition to the important efforts that are focused on the cement sector, the Proposed Scoping Plan Update and recent legislation signed (SB 905, AB 1297) by the Governor have identified carbon dioxide removal technologies as a key strategy to support California's climate goals.

Charm can help support the achievement of California's goals through its proven carbon dioxide removal technology as part of a suite of innovative technologies that California will need to meet our climate goals. The kinds of solutions Charm has developed can also play a key role in supporting California's biomass and forest waste management goals, wildfire and forest resilience actions, and air quality goals. As a California based-company, we are invested in helping the state continue to be a climate leader by putting in place policies that pave the way for innovative technologies and solutions to support climate action. Policies that support emerging carbon-negative technologies will ensure continued investment, job creation, and economic growth for California.

Conclusion

Charm is fully committed to helping California meet its climate goals. As the Governor noted in his July 2022 letter to CARB Chair Randolph on the 2022 Climate Change Scoping Plan Update, innovative carbon removal and sequestration technologies will be necessary for California to reach its climate goals, including carbon neutrality by 2045. Our company was founded with the singular purpose of developing and bringing technology solutions to the collective effort needed to rapidly turn the tide against climate change.

We look forward to continuing to work with you.

Sincerely,



Nora Cohen Brown
Head of Market Development and Policy