



August 16, 2021

California Air Resources Board
1001 I Street
Sacramento, California 95814

RE: Public Workshop on 2022 Scoping Plan Update – Engineered Carbon Removal Technical Workshop

Charm Industrial (Charm) appreciates the opportunity to submit comments to the California Air Resources Board (CARB) in response to the August 2, 2021 Public Workshop on the 2022 Scoping Plan Update – Engineered Carbon Removal. Charm is a California based company working in support of state efforts to rapidly drive down greenhouse gas emissions on the path to carbon neutrality. Charm’s innovative negative emissions technology can play a key role in these efforts. We thank CARB for the opportunity to present at the August 2, 2021 workshop and look forward to continuing to work with CARB and its state agency partners to deliver innovative climate solutions that will provide benefits in California and beyond.

The recent Sixth Assessment Report by the Intergovernmental Panel on Climate Change further underscores the urgent need for collective global action to rapidly cut greenhouse gas emissions. California has been a global leader in efforts to combat climate change for decades. CARB has spearheaded many of these efforts through the design and implementation of innovative policies and programs that have driven down greenhouse gas emissions, supported the development of new, cleaner technologies, and delivered a range of other economic and environmental benefits for Californians.

To meet state climate goals, including carbon neutrality by 2045, and continue its key role as a global climate leader, California must build on and accelerate actions to cut greenhouse gas emissions. These actions must include a clear and robust policy and regulatory framework that will support and take advantage of the significant benefits that innovative carbon removal technologies can deliver. As shown by CARB analysis and those of other experts at the August 2 workshop, California will not successfully achieve its climate goals without these technologies.

As outlined in the attached information presented at the workshop, Charm has developed a proven technology that has already removed thousands of tons of carbon from the atmosphere. Our innovative approach converts waste biomass into carbon

intensive bio-oil that is safely and permanently stored underground. Agricultural waste and highly combustible forest residue that would otherwise burn or be left to rot spewing greenhouse gases 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 can deliver 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 is fully committed to helping California meet its climate goals. 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. The 2022 Scoping Plan Update is a key opportunity for California to lay out an actionable plan to take full advantage of the role that carbon removal technologies can play. Given the urgency of this challenge, however, Charm also urges CARB to consider all immediate actions that the state could take now to begin quickly and safely scaling up negative emission technologies.

We look forward to continuing to work with you.

Sincerely,

Peter Reinhard
CEO