

DOCKETED

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**Blue Planet Comments on the Electric Program Investment Charge
2026–2030 Investment Plan (EPIC 5) Draft Initiatives and
Research**

Additional submitted attachment is included below.



June 18, 2026

Chair David Hochschild
California Energy Commission
715 P Street
Sacramento, CA 95814

**Re: Blue Planet Comments on the Electric Program Investment Charge 2026–2030
Investment Plan (EPIC 5) Draft Initiatives and Research Topics, Docket No. 25-EPIC-01**

Dear Chair Hochschild:

Thank you for the opportunity to provide comments on the California Energy Commission's Draft Initiatives and Research Topics for the Electric Program Investment Charge 2026 – 2030 Investment Plan (EPIC 5).

As a California-based company pioneering carbon capture, removal, utilization and storage (CCRUS) via carbon mineralization and utilization in concrete aggregate, Blue Planet strongly supports the EPIC program and its goal of funding emerging clean energy innovation that results in safe, affordable, and sustainable energy for ratepayers. Specifically, we support with the inclusion of the *Cost-Effective Industrial Decarbonization* in the Draft Initiatives and the overall focus on decarbonizing construction materials. Sustained and prioritized funding for low-carbon and carbon-negative construction materials within EPIC 5 will support California's broader clean energy and affordability goals.

About Blue Planet

Blue Planet is a California-based company pioneering economically sustainable carbon management solutions that convert captured CO₂ into high-value building materials. Our carbon mineralization process can be deployed across a wide array of difficult-to-decarbonize industries – including power plants, refineries, cement production and others – and in connection with direct air capture (DAC) projects, biomass facilities, or other CDR strategies. Importantly, our technology captures not only CO₂, but also particulate matter, NO_x, SO_x and other pollutants hazardous to surrounding communities. We currently have operations at a plant in Pittsburg, California on the Sacramento Delta, and our carbon-sequestered aggregate has been utilized at San Francisco International Airport, where carbon-sequestered concrete is specified.

Blue Planet's technology produces coarse and fine limestone aggregate made from sequestered CO₂, utilizing the carbon mineralization process. It allows lower-cost carbon capture, including from DAC and CDR pathways, by avoiding the need to purify and enrich captured CO₂ before use, reducing the cost and energy needs associated with carbon capture. It also can be deployed at scale anywhere, without requiring access to a CO₂ pipeline or geologic sequestration site to successfully manage carbon.

Support for Cost-Effective Industrial Decarbonization

Blue Planet supports the *Cost-Effective Industrial Decarbonization* initiative and the overall benefits it is hoping to address. As we shared in Blue Planet's June 5, 2026 letter to the California Air Resources Board Re: Concepts for Potential Regulations for Establishing the Carbon Capture, Removals, Utilization, and Storage Program,¹ carbon mineralization and storage/utilization in concrete aggregates offer significant opportunities for the state, while creating value-added building materials that can accelerate deployment in the state's hard-to-decarbonize industrial sectors.

As staff evaluate opportunities under the *Cost-Effective Industrial Decarbonization Initiative*, Blue Planet suggests prioritizing technologies that reduce the parasitic loads associated with carbon capture and carbon management. Technologies that require less electricity to capture, process, transport, and permanently manage CO₂ reduce overall system costs, which provides a direct benefit to ratepayers, while simultaneously advancing the state's climate goals. Blue Planet's carbon mineralization pathway avoids the need for energy-intensive CO₂ purification and enrichment, lowering both operating costs and electricity consumption, in comparison to conventional carbon management approaches.

Moreover, to improve cost-effectiveness, Blue Planet also suggests that decarbonization also support carbon utilization. This creates durable markets for captured carbon that accelerate industrial decarbonization while minimizing the need for state subsidies or other programs to drive it.

Support for Decarbonizing Construction Materials for Cost-Effective Infrastructure

Blue Planet strongly supports the *Decarbonizing Construction Materials for Cost-Effective Infrastructure* research topic as well. Concrete is currently the second most consumed material on earth and accounts for over 8 percent of annual greenhouse gas (GHG) emissions.² Recent research from UC Davis and Stanford, published in *Science*,³ found that replacing conventional building materials with carbon-storing alternatives could sequester about 17 billion tons of CO₂ per year, *or roughly half of current global CO₂ emissions*. The research also identified storage in aggregates as the single largest opportunity to store carbon within the built environment.

California is facing a significant need to build infrastructure that supports its clean energy transition, including transmission facilities, substations, transportation infrastructure, public

¹ https://ww2.arb.ca.gov/approved-comments?entity_id=49076&page=1

² <https://essd.copernicus.org/articles/11/1675/2019/>

³ <https://www.science.org/doi/10.1126/science.adq8594>

buildings, and climate resilience projects. Investing in low-carbon and carbon-negative construction materials offers a meaningful pathway to generate benefits that extend beyond the decarbonizing of construction materials used.

Blue Planet's production process creates zero waste, with all core products and co-products produced contributing to reducing the carbon footprint of concrete through traditional supply chains. By embedding mineralized CO₂ in aggregate, Blue Planet's technology moves beyond incremental reductions to enable net-negative concrete mixes, displacing carbon-intensive materials with a product that actively removes carbon.

The CEC's June 11 Workshop⁴ correctly identifies the limited availability of low-carbon construction materials and the need to further develop alternative manufacturing pathways for cement and other building materials. By embedding mineralized CO₂ in aggregates, Blue Planet's technology enables the production of very low and even negative carbon concrete mixes, moving beyond incremental reductions offered through other strategies to achieve deep decarbonization of building materials and supporting California's climate and clean energy goals.

Thank you for your leadership and thoughtful work in drafting initiatives and research topics for the EPIC 5 Investment Plan. Carbon mineralization and carbon-derived construction materials are precisely the type of emerging, pre-commercial technologies that the program intends to support, and strategic investments can help close commercialization gaps, demonstrate performance at scale, and accelerate deployment of solutions that provide long-term benefits to California ratepayers. Blue Planet is in strong support of these efforts and look forward to continued engagement as the Investment Plan develops.

Sincerely,

Kevin Davis

Vice President of Market Development

⁴ <https://efiling.energy.ca.gov/GetDocument.aspx?tn=270586>