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Docket Number:	22-ERDD-02
Project Title:	Climate Innovation Program
TN #:	247791
Document Title:	Capture6 Comments - Comment from Capture6 on the Climate Innovation Program
Description:	N/A
Filer:	System
Organization:	Capture6
Submitter Role:	Applicant
Submission Date:	11/29/2022 4:42:05 PM
Docketed Date:	11/29/2022

*Comment Received From: Capture6
Submitted On: 11/29/2022
Docket Number: 22-ERDD-02*

Comment from Capture6 on the Climate Innovation Program

We are Capture6, a California-based public benefit corporation developing direct air capture facilities. We use salt water to produce the chemical that captures carbon dioxide from the atmosphere and then mineralize it for long term storage. By using equipment that already exists in industry, we can scale rapidly, and we have plans for our first facility which will capture hundreds of thousands of tons of carbon dioxide per year.

Our decarbonization process has several potential co-benefits like the production of cleaner water that can contribute towards California's resistance to drought under climate change and positively benefit frontline communities. Our byproducts can be hydrogen gas (a clean energy source) and chlorine gas, or the widely-used chemical hydrochloric acid (which is traditionally manufactured by a carbon intensive process).

A key technology topic for the Climate Innovation Program we would like to be considered is the development and commercialization of the emerging industry of direct air capture, supporting scaled facilities (>1 megaton/year carbon dioxide capture) with criteria to incorporate co-benefits and industrial decarbonization.