

McKenzie Smith

From: Dale Prentice <dalepprentice@g.ucla.edu>
Sent: Friday, July 28, 2023 1:24 PM
To: McKenzie Smith
Subject: UCLA comments on cement protocol
Attachments: Low-Carbon Cement Protocol Draft_v4 clean copy.docx

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Hi McKenzie,

Thanks again for your team's efforts putting the protocol together, we at UCLA think it's a fantastic incentive for reducing carbon emissions. Following the discussion from last week's consortium meeting here are the main comments and further suggestions for the current protocol that we have:

- Within the project definition (Section 2.2 Project Definition), CO₂ mineralization and concrete production GHG emissions avoidance (e.g. avoiding steam curing, where relevant) should be included
- Figure 4.1 GHG assessment boundary - should be more clear about whether SSR11 (Emissions from concrete production) is also included in calculations. SSR11 stated it is included in the avoidance calculations from Table 4.1 but not clear in Figure 4.1.
- SSR11 should be expanded to be more specific about concrete production GHG emissions. Specifically addressing steam curing and CO₂ uptake (and process emissions from any new equipment) from carbonation curing. Additional equations are very similar for emissions accounting for SCM/ACM production already.

If one of the concerns is the difficulty of including equations and monitoring for accounting CO₂ mineralization and concrete forming within the protocol, we have attached a CO₂ accounting methodology which should follow similar steps to the proposed protocol. This methodology can be used for any concrete producer with or without direct carbonation.

I hope this helps in revising the current protocol and we can work together to address all the needs of the stakeholders of the protocol. Have a great weekend!

Cheers,
Dale

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Dale Prentice, PhD

Project Scientist, Institute for Carbon Management



**UCLA SAMUELI SCHOOL OF ENGINEERING
INSTITUTE FOR CARBON MANAGEMENT**

o: N/A
m: 310.739.6353
420 Westwood Plaza
7400B Boelter Hall
Los Angeles, CA 90095-1600
www.samueli.ucla.edu
www.icm.ucla.edu