## **Carbon Removal Application**

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## **DAC Supplement**

Only fill out this supplement if it applies to you.

Note: these questions are with regards only to air capture: e.g. your air contactors, sorbents or solvents, etc. Separately, there exist Geologic Injection and CO<sub>2</sub> Utilization supplements. We anticipate that most companies filling out this DAC supplement should ALSO fill out one of those supplements to describe their use of the CO<sub>2</sub> stream that's an output of the capture system detailed here.

## 1) Physical Footprint

a) What is the physical land footprint of your project, and how do you anticipate this will change over the next few years? This should include your entire physical footprint, i.e., how much land is not available for other use because your project exists.

Year	Land Footprint (km²)	
2021		
2022		
2023		

b) What is the volumetric footprint of your contactor? (How big is your physical machine compared to how much you're capturing?) and how do you anticipate this will change over the next few years? These numbers should be smaller than (1) above.

Year Land Footprint (km²)
2021

s and Proc	esses		
ing?			
rams CO₂ per grams	s material/cycle)		
	<u>//</u>		
rams CO₂ per grams	s material/cycle)		
: solvent? Discuss h	ow this sourcing strat	eav might change as voi	ır
s associated with th	ne sourcing or manufa	cture of it (hazardous wa	astes
ncluded the associa	ated carbon intensities	s in your LCA in Section 6	5)
	rams CO <sub>2</sub> per grams rams CO <sub>2</sub> per grams r solvent? Discuss hes associated with th	rams $CO_2$ per grams material/cycle)  rams $CO_2$ per grams material/cycle)  r solvent? Discuss how this sourcing stratus associated with the sourcing or manufa	rams CO₂ per grams material/cycle)

e) How do you cycle your sorbent/solvent?

<100 words	
f) What is your proposed source of energy? What is its as the duration of your project? (You should have already in in Section 6	
<100 words	
g) Besides energy, what other resources do you require in sourcing these resources, and what happens to them after already included the associated carbon intensities in your	er they pass through your system? (You should have
<100 words	
h) Per (g), how much of these resources do you need per	cycle?
<100 words	
i) How often do you cycle your sorbent/solvent? (# cycles	s/day)
j) Does your sorbent or solvent degrade over time? Is deg conditions, or both?	gradation driven primarily by cycling, environmental
<100 words	

k) In practical operation, how often do you need to replace your sorbent or solvent material, if at all?

<100 words	
l) Per (k), what happens to your sorbent/solvent at end-of-	life? Please note if it is hazardous or requires some
special disposal, and how you ensure end-of-life safety.	
<100 words	
m) Several direct air technologies are currently being depl	oyed around the world (e.g. Climeworks). Please
discuss the merits and advantages of your system in comp	parison to existing systems.
<200 words	