

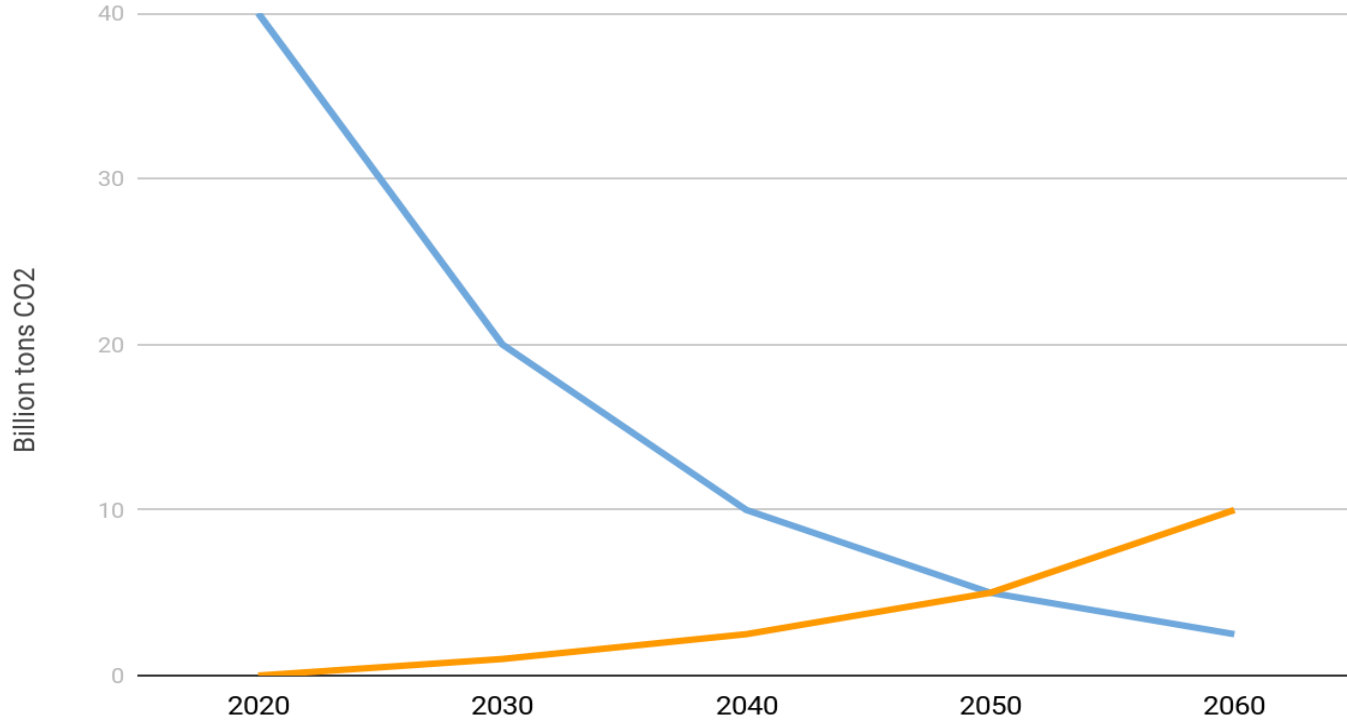
Engineered CDR & community-level considerations

Vanessa Suarez
August 2, 2021

 Carbon180

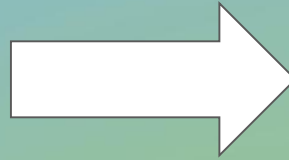


We have to **reduce emissions...**



...and **remove
carbon**

Broad
Technology-
Level
Approach



Project-
by-
Project
Approach



Assess



Potential
Impacts &
Opportunities

Project
Processes



LOCAL ENVIRONMENTAL JUSTICE

What are the environmental and public health impacts?

What are community values and priorities?

What is the process to empower the community in project development and implementation?

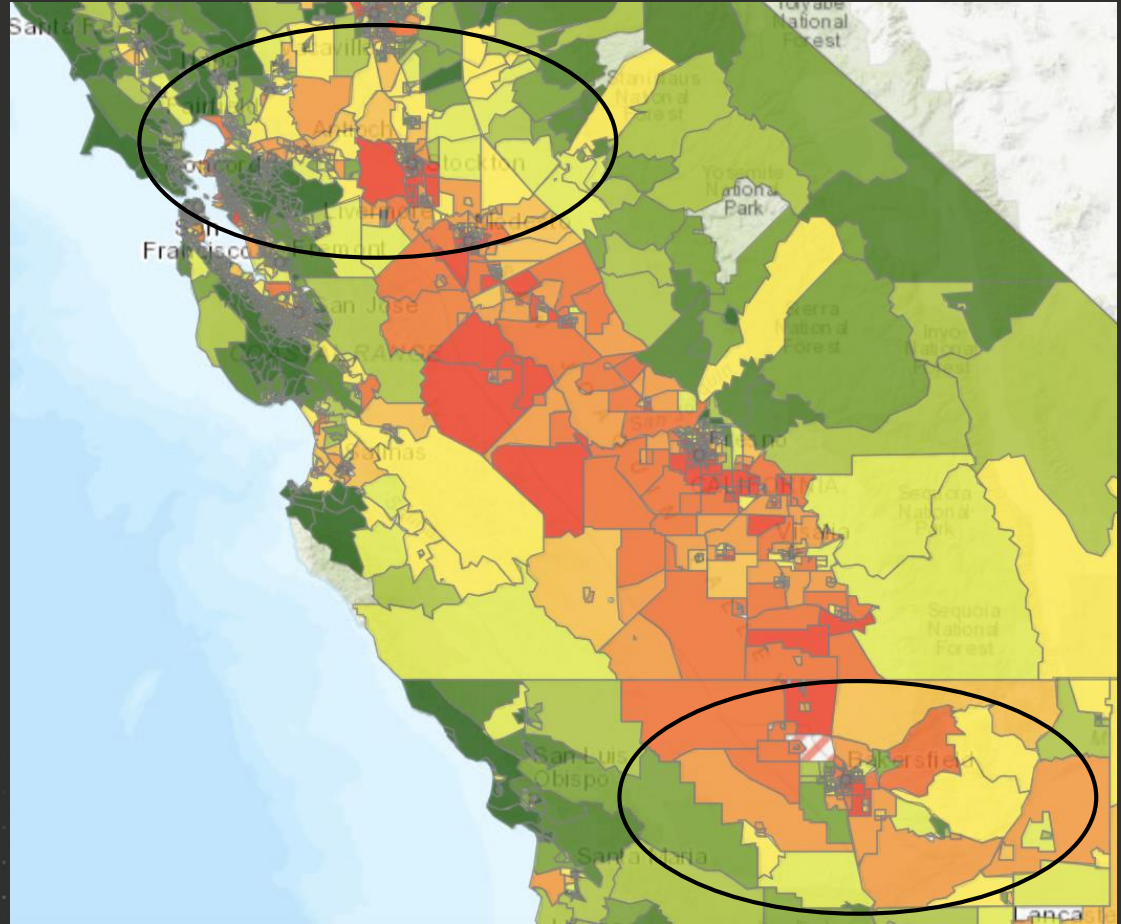
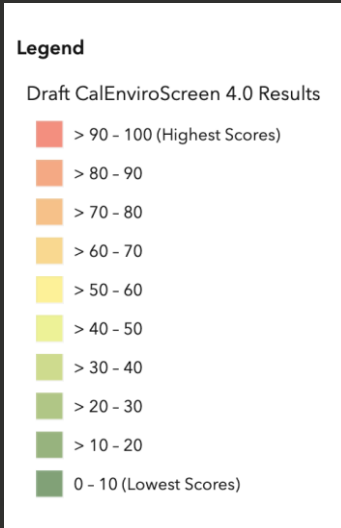
Who stands to benefit from the project?

Potential impacts of priority from engineered CDR projects

- Air & water quality
- Land use & ecological integrity
- Human health & safety
- Energy needs
- Employment & labor

Lawrence Livermore National Lab Survey

on community views of carbon
capture & geologic storage projects
in California's Kern County & Delta
region



Justice types for equitable implementation of engineered CDR projects

Reparative

How past harms are amended

Distributive

How resources are divided and shared

Procedural

Who gets to be at the table

Integrating justice into public engagement

PROCEDURAL

- Create transparent and inclusive dialogues where communities can discuss concerns and priorities
- Assist and compensate communities for participation
- Empower communities to shape project features, outcomes, and alternatives and ultimately decide to go/no-go a project

DISTRIBUTIVE

- Ensure potential project harms don't fall disproportionately on marginalized groups or communities
- Allocate potential project benefits fairly across groups and communities
- Provide communities just and agreed-upon compensation

REPARATIVE

- Hold relevant extractive industries and other stakeholders accountable for historic harms, ensuring that continuing harms are addressed and repaired while power is returned to marginalized communities

The big picture

- Assess engineered CDR solutions on a project-by-project basis
- Address the historical association of engineered CDR with the oil & gas industry
- Craft & implement equitable & effective public engagement processes for engineered CDR projects
- Support capacity building for local communities and community-based organizations (CBOs)
- Promote engineered CDR projects that provide tangible non-climate benefits & align with community priorities
- Invest in social science research to fill remaining key knowledge gaps surrounding engineered CDR technologies

Thank you!

Vanessa Suarez
July 22, 2021

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