Engineered CDR & community-level considerations

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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

Legend
Draft CalEnviroScreen 4.0 Results
- > 90 - 100 (Highest Scores)
- > 80 - 90
- > 70 - 80
- > 60 - 70
- > 50 - 60
- > 40 - 50
- > 30 - 40
- > 20 - 30
- > 10 - 20
- 0 - 10 (Lowest Scores)
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!

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