

# Fundamentally rethinking carbon.

NASEM meeting on Ocean CDR

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# National Academies 2018 NET Report

- Was major catalyst for action in terrestrial CDR, in conjunction with IPCC special report.
- Provided proposals and budgets easily adaptable to congressional action.
- Resulted in appropriations and authorizations bills, and more.
- Created growing interest at numerous environmental organizations.
- Ocean CDR is now in a similar place that terrestrial CDR was in - but with benefit of familiarity and experience.



# A growing interest

Policy circles in different sectors are building momentum around ocean CDR

## Federal Government

US Congress, agencies, military

## Civil Society

Environmental NGOs, advocacy organizations, think tanks, philanthropies

## Academia

Universities & research institutions in multiple disciplines (basic science, law, social science)

# Ocean CDR faces unique governance issues

- Robust national and international laws exist, but were not designed with ocean CDR in mind
- Research governance for ocean CDR will be different than what terrestrial CDR approaches have faced
- Environmental safeguards are especially critical and more challenging versus terrestrial CDR
- Coastal communities and some indigenous populations face direct impacts of both research and deployment
- Some approaches offer co-benefits to adaptation and conservation efforts

## CASE STUDY: OCEAN FERTILIZATION

- 2017 attempt to conduct an “eco-engineering or ocean restoration” experiment by Oceaneos Marine Research Foundation of Vancouver.
- Involved fertilizing area off the coast of Chile with iron.
- Lack of distinction between CDR and “ocean restoration” trials creates challenges around creating research standards for Ocean CDR.

# What we hope for from this report

- Outputs that can be used in advocacy efforts by a range of institutions.
- Recommendations that create support for robust research and deployment governance.
- Inclusion of environmental justice as a key consideration in both a research agenda and its implementation.



Thank you! Please reach out to  
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