

Geoengineering - report by David Millar, Quaker Earthcare Witness rep to CBD

US geoengineering lobbies are increasing pressure on Congress: National Academies of Sciences, Engineering, and Medicine report (March 2021), House Bill for U.S. Global Change Research

Program \$100-200b. **News updates and lobbyists:**

https://www.huffpost.com/entry/solar-geoengineering-climate-change_n_605c765dc5b67593e055ff9d

https://en.wikipedia.org/wiki/U.S._Global_Change_Research_Program

<https://www.globalchange.gov/browse/reports> Climate Assessment report IV

And California Senate Bill 27

For critical analysis see

<https://www.climatechangenews.com/2020/12/11/10-myths-net-zero-targets-carbon-offsetting-busted/>

https://en.wikipedia.org/wiki/Climate_engineering and

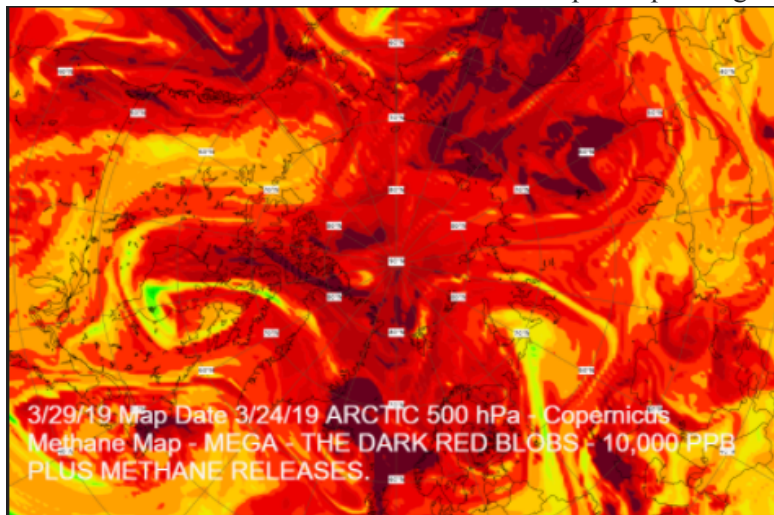
https://en.wikipedia.org/wiki/Solar_geoengineering

<https://map.geoengineeringmonitor.org/>

A number of the geoengineering projects claim to be meeting **the methane threat** aka methane bomb, clathrate gun (see https://en.wikipedia.org/wiki/Clathrate_gun_hypothesis)

My research:

methane release in Siberia 2019 - shown in European Space Agency's Copernicus satellite data



Recent re-calculation by Katey Walter Anthony of the American Geophysical Society suggests immediate impact of the methane bomb in the East Siberian Sea *alone* could be 1.4C (twice the change we've had in the last 200 years). The Alliance of World Scientists [downplays](#) the threat but quotes only a 10-year old study by Dr Peter Wadhams; however he endorses* recent findings by Walter Anthony, K., Schneider von Deimling, T., Nitze, I., Froking, S., Emond, A., Daanen, R., Anthony, P., Lindgren, P., Jones, B., Grosse, G. **2018**. 21st-century modeled permafrost carbon emissions accelerated by abrupt thaw beneath lakes. Nature Communications. 9(1). doi: [10.1038/s41467-018-05738-9](https://doi.org/10.1038/s41467-018-05738-9) ([Bartsch \(2016\)](#) [Meyer \(TE 2014\)](#) [Miller \(TE 2014\)](#), **71** citations)

Initial reports were from Siberia

<https://www.theguardian.com/science/2020/oct/27/sleeping-giant-arctic-methane-deposits-starting-to-release-scientists-find>

but surveys in 2020 have found ongoing methane release in Brazil offshore as well as Alaska

<https://phys.org/news/2020-09-massive-methane-gas-seafloor-southern.html>

<https://earthobservatory.nasa.gov/features/MethaneMatters>

*Peter Wadhams in PSTW interview 185 <https://www.youtube.com/watch?v=2T7fEUelrm4&t=7s>

Maybe it's time to act as if the DUC ([Declaration of Climate Emergency](#)) is true...

The geoengineering crisis:

On 24-25 March 2021 there was an key international strategy conference on zoom for HOME handsoffmotherearth.org

with simultaneous translation in Spanish and English. Presenters were:

Lili Fuhr, Heinrich Böll Foundation)

Niclas Hällström, WhatNext? Sweden <https://campaign.fossilfuel treaty.org>

Carroll Muffett of CIEL

The conference was recorded but I do not yet have the URL. However, I was able to screen-capture some of the presentations, which will give you an overview of the threat to humanity posed by these crazy ideas, backed by carbon offsets, billion-dollar investors and major universities.

See the slides below to understand the basics.

The coalition includes many trustworthy NGOs that I have worked with for more than a decade. CBD Alliance, ETC Group, Alianza por la Biodiversidad en América Latina, Amigos de la Tierra de América Latina y el Caribe (ATALC), Asian Peoples Movement on Debt and Development (APMDD), Biofuelwatch, Climate Justice Alliance, Corporate Accountability International, Corporate Europe Observatory, Development Alternatives with Women for a New Era (DAWN), Focus on Global South, Friends of the Earth International, Global Forest Coalition, Grain, Grassroots Global Justice Alliance (GGJA), Heinrich Böll Foundation, Indigenous Environmental Network, International Oil Working Group, JVE International, La Via Campesina, Navdanya, International, Oilwatch, Latinoamérica, The Gaia Foundation, Third World Network, Transnational Institute, World Indigenous Women's Alliance (TONATIERRA), World March of Women Americas, World Rainforest Movement, Oil Change International and **more than 100 others**.

Even if you do not know the NGOs, you may recognize some of the **key people**: Silvia Ribeiro and Laura Dunn of ETCgroup, Gadir Lavadenz of the CBD Alliance, Tom Goldtooth, Vandana Shiva, Nnimmo Bassey, Theresa Church of Global Justice Ecology Project and the Campaign to Stop GE Trees; Carroll Muffett of CIEL: the Center for International Environmental Law, Cindy Wiesner and Kitzia Esteva-Martinez of GGJA, Shorey Myers with the CS Fund. For many years I have written reports to QEW about their work.

Presentations on zoom (screen captures)

1. By Silvia Ribeiro of CBD Alliance

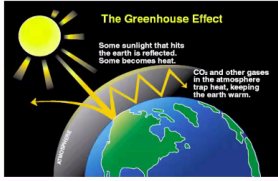
Recording You are viewing Silvia Ribeiro / ETC's screen View Options

Hands Off Mother Earth!

What is GEOENGINEERING?

Categories of Geoengineering techniques - as proposed by geoengineers

Carbon Dioxide Removal (CDR)	Solar Radiation Management (SRM)	Weather Modification
Remove GHGs from the atmosphere after they have been emitted	Reflect sunlight back into space to reduce warming effect	Manipulating or modifying the weather



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From Lili Fuhr, EN, she/her (Heinrich...)
Hallo! I am Lili with the Heinrich Bö...

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David Millar

etc GROUP

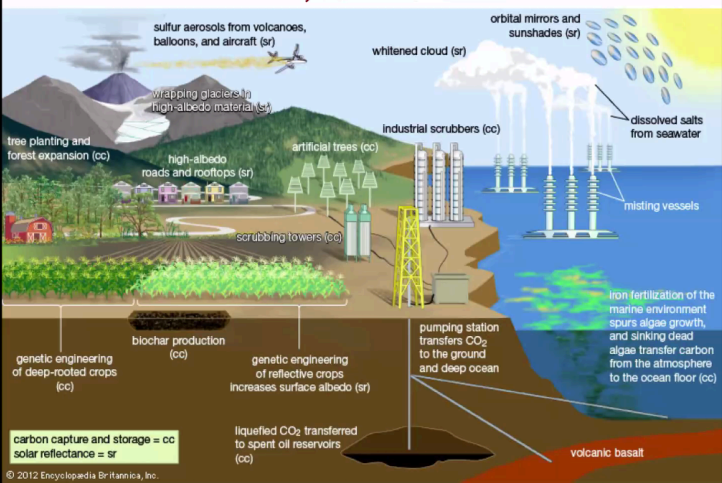
Ricardo Balderas-Español-41/he

Niclas Hallström, WhatNext? (En...

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Proposed geoengineering techniques to intervene LAND, OCEAN and AIR



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Hands Off Mother Earth!

Climate change would continue

- **None of the geoengineering techniques aim to address the root causes of climate change.** They aim to partially counteract some of its symptoms, ALL are unproven, mostly are just theoretical
- **Underlying drivers of climate change (e.g. unsustainable industrial production, growing unequal consumption, deforestation, unsustainable agriculture and land use changes) would continue unaffected.**

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ETC GROUP

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Geoengineering is under UN moratoria

- In 2008, the **CBD** took a decision to call for a moratoria on Ocean Fertilization
- In 2010, the CBD called for a moratoria on **all geoengineering techniques** (excepting CCS from fossil fuels). It was reaffirmed in 2012 and 2016.
- The **London Protocol** (of the LC), took a decision in 2013 to not allow ocean fertilization activities, excepting "legitimate scientific research" – a term thoroughly defined by the LC/LP.

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Crucial Geoengineering Developments

America's race to zero emissions

The race to zero: can America reach net-zero emissions by 2050?



"Net zero" is NOT ZERO

"Nature Based Solutions" = advancing geoengineering through financialization and devastation of nature

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Why is geoengineering dangerous?

- Mega-scale / transboundary
- No experimental phase
- High-risk and unreliable
- Unequal impacts
- A “perfect excuse” to avoid reductions
- Unilateral / exacerbates power imbalance
- Intergenerational injustice
- Weaponization risk

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CLIMATE NEUTRAL 2050

Brussels December 2

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Crucial Geoengineering Developments

Silicon Valley billionaires want to geoengineer the world's oceans



Top US scientists back \$100m geoengineering research programme

BHP invests US\$6m in emissions reduction company, Carbon Engineering

Microsoft will be carbon negative by 2030

This Bill Gates-funded chemical cloud could help stop global warming

PUBLISHED SAT, SEP 7 2019-9:30 AM EDT | UPDATED SAT, SEP 7 2019-9:39 AM EDT

Chevron, Occidental invest in CO2 removal technology

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The HOME Campaign

In 2018, 110 civil society organizations and popular movements signed the Hands Off Mother Earth! Manifesto and demanded an immediate stop to climate geoengineering.

The Manifesto was released in the same week that the Intergovernmental Panel of Experts on Climate Change (IPCC) was meeting in South Korea to debate a new report on how to limit global warming to 1.5 degrees Celsius.

Download here: <https://www.geoengineeringmonitor.org/2018/10/news-release-hands-off-mother-earth-110-civil-society-organizations-and-popular-movements-demand-an-immediate-stop-to-climate-geoengineering/>

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HOME Assembly

Updates on the HOME Campaign and related activities

by Cynthia Mellon, Climate Justice Alliance

HOME Campaign Updates


Recent collaborations for online events

Resisting GE experiments

- Anti-GeoEng 7 Earths
- 2018 EN Action Movement, CA, HOME
- 2018 Home VIM project
- Home 100 actions to ETC Group, Vancouver, BC, CA, HOME
- 2021, presented in Korea, Sweden, Switzerland, Spain, South Korea, USA
- Marine Cloud Brightening
- 2018 Asia Rising Conference, NYC, USA/EN
- 2018 MCA France, Australia and Austria, HOME

Click to add notes

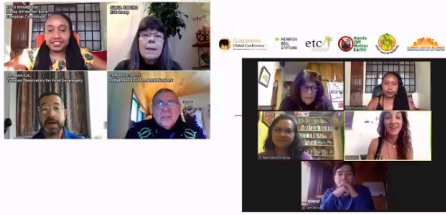
Slide 2 of 13 English (United States) HOME Campaign Updates



HOME Campaign Updates

Recent collaborations for online events

GROUNDING TEACH-IN ON GEOENGINEERING: A FALSE SOLUTION TO THE CLIMATE CRISIS



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David Millar

etc GROUP

Ricardo Balderas-Español-El/he

Cynthia Mellon She/Her English...

etc GROUP


Laura Dunn Canada - EN (she/her)

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2. By Cynthia Mellon of Climate Justice Alliance

The screenshot shows a Google Meet interface during a presentation. The top bar indicates the session is recording. The presentation slides are titled 'HOME Assembly' and 'Updates on the HOME Campaign and related activities' by Cynthia Mellon, Climate Justice Alliance. The slides are displayed in a list on the left and the main content area shows the title slide. The right sidebar shows video feeds of participants: Silvia Ribeiro, David Millar, Ricardo Balderas, Cynthia Mellon, and Laura Dunn Canada. The bottom bar shows controls for the meeting, including 'Unmute', 'Stop Video', 'Participants', 'Chat', 'Share Screen', 'Record', 'Reactions', 'English', and a 'Leave' button.

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Resisting GE experiments

- **Artic Project / Ice911**
 - 2018, IEN, Native Movement, CJA, HOME
- **SCoPEX: Harvard SRM project**
 - From 2015 actions by ETC Group, Tonatierra, IEN, CJA, HOME
 - 2021 : announced in Kiruna, Sweden; (Swedish orgs, Saami Council, HOME)
- **Marine Cloud Brightening**
 - 2010, Silver Lining, California, (ETC, HOME)
 - 2020, MCB Project, Australia (FoE Australia, HOME)
- **Ocean Fertilization:** ETC Group, Terram (Chile), Acción Ecológica, Searice, Greenpeace and other HOME members have been collaborating against Ocean Fertilization open air experiments:
 - 2007, Planktos Corp in Galapagos, Ecuador
 - 2008, ONC Corp in Sulu Sea, Philippines
 - 2012, Haida Salmon Restoration Corp, Haida Gwaii, Canada
 - From 2018 Oceaneos, Chile (Terram, HOME)

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HOME Campaign Updates

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HOME Campaign Updates

Online Content and Resources

LOOKING BACK, MOVING INTO THE FUTURE - A CONVERSATION WITH NIGERIAN ENVIRONMENTALIST NNIMMO BASSEY

GEENGINEERING IN THE GLOBAL SOUTH (ETC PODCAST)

GEENGINEERING AND DECOLONIZATION (ETC PODCAST)

Issue No. 1 - 16 Oct 2020 View this email in your browser

HANDS OFF MOTHER EARTH
HOME Campaign
Say NO to Geoengineering!

[Traduction en Espagnol ci-dessous, Traduction Française ci-dessous]

Greetings,

We sincerely hope that you are doing well, as well as one can be in these times of continued crisis.

Hands off Mother Earth (HOME) welcomes you to read our first newsletter! We are delighted to introduce this new communication resource that will be sent to our community of supporters once a month. The newsletter will be used primarily to update you on the campaign's progress, scheduled webinars, as well as to provide resources that will support you in your advocacy and campaign work against geoengineering technologies and other false solutions to the climate crisis.

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Online Content & Resources



GEOENGINEERING MONITOR

www.geoengineeringmonitor.org
facebook.com/geoengineeringmonitor
 Twitter: @GeoEngMon

Geoengineering Monitor

This is a joint project of Biofuelwatch & ETC Group, with support from Heinrich Boell Foundation.

It aims to be a timely source for information & critical perspectives on climate engineering.

Some resources published on the website include:

- technology and experiment factsheets
- regular reports on geoengineering developments
- HOME Campaign statements, letters & activities

Geoengineering Map

An interactive map that attempts to shed light on the worldwide state of geoengineering by showing the scope of research and experimentation.

The map is prepared by ETC Group and the Heinrich Boell Foundation.



map.geoengineeringmonitor.org

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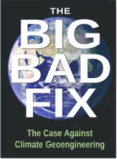
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THE BIG BAD FIX
The Case Against Climate Geoengineering



GEOINGENIERÍA
El gran fraude climático



La grande fraude climatique
le cas contre la géoingénierie climatique

The Big Bad Fix

In this report, ETC Group, BiofuelWatch and Heinrich Boell Foundation present a comprehensive argument against geoengineering.

Available in English, Spanish and French.

Big Bad Fix (English):
<http://www.geoengineeringmonitor.org/2017/12/3087/>

El Gran fraude climático (Español):
<https://www.etcgroup.org/es/content/big-bad-fix-el-gran-fraude-climatico>

La grande fraude climatique (Français):
<https://www.etcgroup.org/fr/content/la-grande-fraude-climatique>

More links to online resources is posted on the Zoom chat box

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Cynthia Mellon She/Her English...


etc GROUP

Laura Dunn Canada - EN (she/her)

From Laura Dunn Canada - EN (sh...
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Regional Activities

North American Working Group on Geoengineering led by Climate Justice Alliance

<https://climatejusticealliance.org/geoengineering/>



FEATURED WORK
Women on the Frontlines of the Climate Crisis, Are Leading the Fight for Climate Justice

GEOENGINEERING 101
Hacking the Planet

Sub Menu

Welcome to a new feature of CIA's website: **Geoengineering 101: Hacking the Planet.**

Newsletter Sign Up

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From Laura Dunn Canada - EN (she/her)
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Regional Activities

North America Geoengineering Working Group

- Convened in October of 2019 by Climate Justice Alliance
- CJA is a national alliance of currently 74 frontline organizations and support groups
- CJA works against false solutions and market-based approaches to the climate crisis
- Both CJA members and non-members participate in the working group

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NA Geo Working Group

- Climate Justice Alliance
- ETC Group
- Biofuelwatch
- Global Justice Ecology Project
- Institute for Policy Studies
- Corporate Accountability
- Indigenous Environmental Network
- Tonatierra
- Native Movement
- Labor Network for Sustainability

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Activities & Achievements

- Geoengineering 101: Hacking the Planet <https://climatejusticealliance.org/geoengineering/>
- Strategy for exposing unaccountable SCoPEx Advisory Committee
- Webinar for national CJA membership
- Congressional Briefing on Carbon Capture and Storage (March 2021)

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Tracking Legislation

- Consolidated Appropriations Act (Pub.L. 116-260/HR 133): Includes Energy Law that promotes CCS and solar geoeengineering
- CLEAN Future Act (HR 1512): Promotes CCS and BECCS


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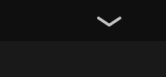
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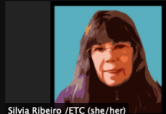
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Tracking Legislation

- Storing CO2 and Lowering Emissions Act (SCALE)
"Requires Secretary of Energy to establish programs for carbon dioxide capture, transport, utilization, and storage and for other purposes."


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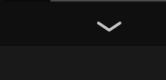
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Ricardo Balderas-Español-El/He



Cynthia Mellon She/Her English




etc GROUP

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Tracking Legislation

- State of California

Senate Bill 27

Would require the Natural Resources Agency and other state agencies to establish carbon sequestration goals.

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David Millar

etc GROUP

Ricardo Balderas-Español-El/he

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3. By Carroll Muffett of CIEL

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Fuel to the Fire - HOME Assembly - March 2021 - PowerPoint

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1 FUEL TO THE FIRE: How Geoengineering Threatens to Entrench Fossil Fuels and Accelerate the Climate Crisis

2

3

4

5

6

Carroll Muffett
HOME Assembly
March 25, 2021

CIEL
CENTER FOR INTERNATIONAL ENVIRONMENTALISM

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Cynthia Mellon She/Her English...

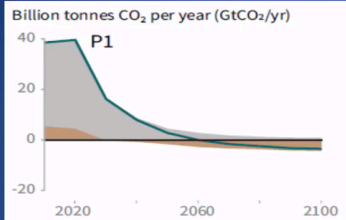
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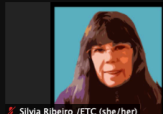




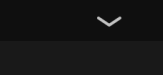
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IPCC SR 1.5 Pathway 1



P1: A scenario in which social, business and technological innovations result in lower energy demand up to 2050 while living standards rise, especially in the global South. A downsized energy system enables rapid decarbonization of energy supply. Afforestation is the only CDR option considered; neither fossil fuels with CCS nor BECCS are used.

- **CO2 Reductions**
 - 58% by 2030;
 - 97% by 2050
- **Fossil Fuel Reductions**
 - Coal (-97%)
 - Oil (-87%)
 - Gas (-74%)

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FIGURE 6
CO₂ Emissions from Developed Fossil Fuel Reserves, Compared to Carbon Budgets within Range of the Paris Goals

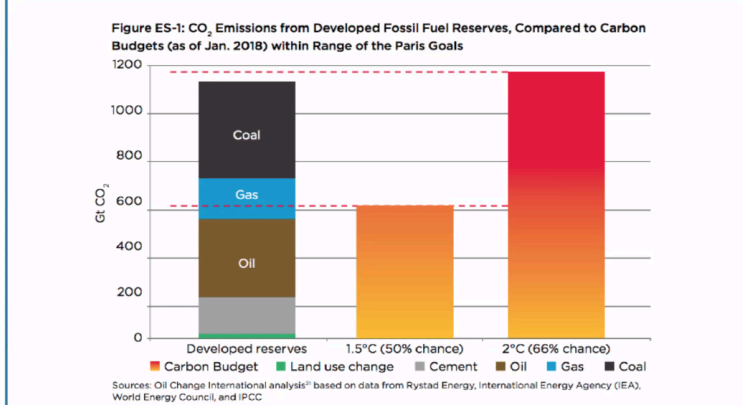








Figure ES-1: CO₂ Emissions from Developed Fossil Fuel Reserves, Compared to Carbon Budgets (as of Jan. 2018) within Range of the Paris Goals

Sources: Oil Change International analysis¹⁰ based on data from Rystad Energy, International Energy Agency (IEA), World Energy Council, and IPCC

OIL CHANGE INTERNATIONAL, DRILLING TOWARDS DISASTER: WHY U.S. OIL AND GAS EXPANSION IS INCOMPATIBLE WITH CLIMATE LIMITS 5 (2019), <http://priceofoil.org/content/uploads/2019/01/Drilling-Towards-Disaster-Web-v2.pdf>.

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DEMAND – PROJECTIONS

Global energy mix shifts to lower-carbon fuels

Quads

Percent of primary energy (%)

2000 2010 2020 2030 2040

2017 2040

Oil
Natural gas
Coal
Electricity
Other renewables
Nuclear
Wind/Solar

Other renewables
Wind/Solar
Nuclear
Natural gas
Oil
Coal

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Energy-related CO₂ emissions peak Billion tonnes

ExxonMobil

40
30
20
10
0

2000 2010 2020 2030 2040

Middle East
Africa
Latin America
Russia/Caspian
Other Asia Pacific
China
Europe
North America

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Higher societal costs

Lower societal costs

Hypothetical -2°C policy / technology frontier

Technology advances likely to reduce costs of policies on society

Societal Cost / Technology matrix is illustrative only

Existing (e.g., natural gas, wind, solar, CCS)






Advances

Breakthroughs (e.g., negative emissions, storage, CCU, advanced biofuels, hydrogen)

Technology breakthrough opportunities
Power grid reliability & long-duration storage: Batteries, chemical storage, hydrogen
Lower-carbon commercial transport: algae & cellulosic biofuels, fuel cells, batteries
Lower-carbon industrial processes: carbon capture, hydrogen, process intensification
Advanced, less carbon-intensive materials for efficient buildings and infrastructure
Negative emissions: bioenergy with carbon capture, direct air capture, CO ₂ utilization

Technologies that could achieve "negative emissions," such as direct air capture or bioenergy with carbon capture, were found to be an important part of the assessed 2°C scenarios. Many of these scenarios employed negative emissions where possible to offset harder and more costly to decarbonize sectors like industrial and transportation.

Without expanding the existing technology options, the stringency of policies and their related costs to society could increase. If society pushes back on some of these policies, it could risk setbacks on climate progress. Technology advances combined with sound policies improve society's chances of achieving the goals of the Paris Agreement.








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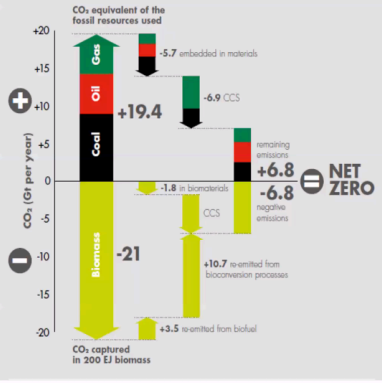
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NEW LENS ON THE FUTURE

Plausible Balance in an Emerging Net-Zero Emissions World

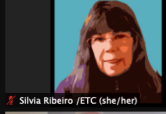






CO₂ equivalent of the fossil resources used

CO₂ (Gt per year)

CO₂ captured in 200 EJ biomass

NET ZERO

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Bill Gates Says \$11 Trillion Anti-Oil Push Isn't Working

By Julianne Geiger - Sep 17, 2019, 3:00 PM CDT




Join Our Community

It may make you feel like you're doing something, but those climate activists screaming at investors to divest from those dirty fossil fuels could be wasting their time, Microsoft mogul Bill Gates has said.

Gates, one of the world's leading philanthropists, is telling the climate brigade that they would be better off abandoning their divestment crusades and instead encouraging investments in alternatives such as [disruptive technologies](#) that will [slow carbon emissions](#).

Is Bill Gates Right On Energy Investing?

OILPRICE WORLD
The No. 1 Source for Oil & Energy News



Join Our Community

Not long ago, Bill Gates [offered](#) some investment advice. That, in itself, constitutes news, but the content and the reactions make up a more interesting story.

Gates told the Financial Times, in essence, that investors who want to do something about climate change should stop making up lists of companies they do not want in their portfolios based on involve-ment in fossil fuel production or use. They should, instead, invest in disruptive technologies that will pro-vide actual solutions to climate change.

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David Millar

Carroll Muffett-English (he/him)

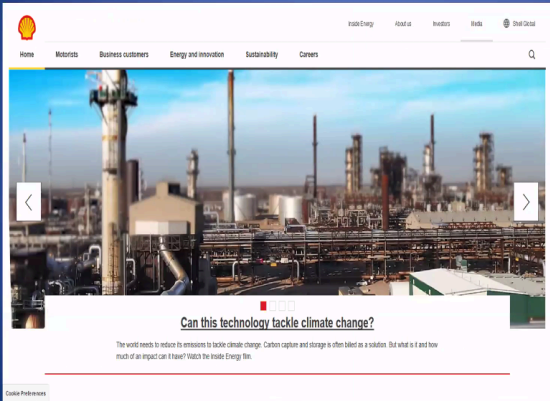
Cynthia Mellon She/Her English...

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"...with Carbon Capture & Storage":



Can this technology tackle climate change?

The world needs to reduce its emissions to tackle climate change. Carbon capture and storage is often billed as a solution. But what is it and how much of an impact can it have? Watch the Inside Energy film.

- CCS
- BECCS
- DAC-CCS

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EOR is “currently the only commercially ready process allowing for simultaneous utilization and storage (CCUS) of industrial-scale volumes[.]”--NORCE

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TECH

Bill Gates and Big Oil back this company that's trying to solve climate change by sucking CO2 out of the air

PUBLISHED SAT, JUN 22 2019-9:15 AM EDT

Katie Brigham

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VIDEO 14:43

This Bill Gates and big-oil backed company wants to fight climate change by...

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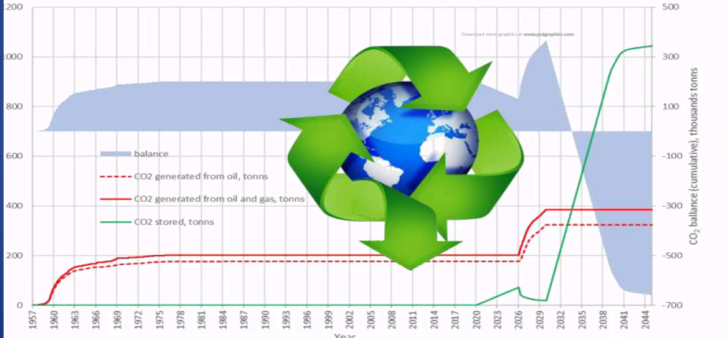
Video thumbnails: Silvia Ribeiro /ETC (she/her), David Millar, Carroll Muffett-English (he/him), Cynthia Mellon She/Her English..., etc GROUP, Laura Dunn Canada - EN (she/her)

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Simulated case study

REPP norway grants

CO₂ pilot 2020-2026; CO₂-EOR 2026-2029;
Fullscale CO₂ storage 2030 – 2040



Source: Roman Berenbylum, NORCE at COP 24, "Regional business case for CO2-EOR and storage-the subsurface solution toolbox."

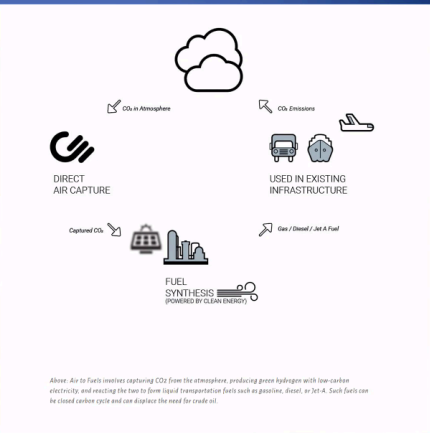
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Video thumbnails: Silvia Ribeiro /ETC (she/her), David Millar, Carroll Muffett-English (he/him), Cynthia Mellon She/Her English..., etc GROUP, Laura Dunn Canada - EN (she/her)

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Direct Air Capture

- Massively more energy intensive than CCS
- Most business cases process captured CO₂ into new transportation fuels, such as jet fuel



The diagram illustrates the Direct Air Capture (DAC) process. It shows CO₂ being captured from the atmosphere (represented by a cloud) and then used in existing infrastructure (represented by a car and a factory). The captured CO₂ is then used for fuel synthesis (represented by a fuel pump icon) powered by clean energy. The process is labeled 'DIRECT AIR CAPTURE' and 'USED IN EXISTING INFRASTRUCTURE'. Below the diagram, a small text box states: 'Above: Air-to-fuels involves capturing CO₂ from the atmosphere, producing green hydrogen with low carbon electricity and mixing the two to form liquid transportation fuels such as gasoline, diesel, or Jet-A. Such fuels can be closed carbon cycle and can displace the need for crude oil.'

Participants: Cynthia Mellon She/Her English... etc GROUP Laura Dunn Canada - EN (she/her)

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Chevron's Fig Leaf Part 4: Carbon Engineering's Only Market Is Pumping More Oil



The image shows the logos for BHP and Chevron Oxy. The BHP logo is in orange and blue, and the Chevron Oxy logo is in blue and red. A small green leaf icon is placed over the 'Oxy' part of the logo.

Source: Michael Barnard, Clean Technica, April 19, 2019

In recent years, direct oil industry investments in DAC have accelerated, with EOR identified as the key market opportunity.

Participants: Cynthia Mellon She/Her English... etc GROUP Laura Dunn Canada - EN (she/her)

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Carbon Engineering doubling size of direct air capture plant in Permian Basin

By JWN staff | Sept. 19, 2019, 7:23 a.m. | Share



This May the company announced the deal for the plant, which is to be located in the Permian Basin. It will capture CO₂ directly from the atmosphere to be used in Occidental's enhanced oil recovery operations.

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IEA-GHG

'Unburnable Carbon'

Fossil fuel reserves which cannot be used and their GHG emitted if the world is to adhere to a given atmospheric carbon budget



FINANCIAL TIMES
Bank of England to examine financial risks linked to fossil fuels
The bank's report says the world's reserves of fossil fuels are far larger than what can be burned without exceeding the 2°C target.

IEAGHG Report 2016-05. Contractor: SGI at Imperial College UK

- Global CO₂ storage capacity (volumetric) is large and well above known fossil fuel reserves
- CCS enables access to significantly higher quantities of fossil fuels in a 2°C world
- CCS unlocks 'Unburnable Carbon'

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Video feed participants: Silvia Ribeiro /ETC (she/her), David Millar, Carroll Muffett-English (he/him), Cynthia Mellon She/Her English..., etc GROUP, Laura Dunn Canada - EN (she/her)

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A FUTURE WITHOUT CO₂ EMISSION

Enabling the safe and efficient deployment of the CO₂ Capture and Storage (CCS) technology.

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CARBON DIOXIDE REMOVAL

Ultimately, it may be necessary to remove CO₂ from the atmosphere. A variety of technologies, several of which are listed below, are available to do this. They all face one or more major issues, including scalability, technology hurdles, cost and practical pathways to implementation. CO₂ removal may even begin to fall into the category of geoengineering, that is, deliberate, large-scale intervention in the earth's natural systems to counteract climate change. The scale, responsibility and ethical issues related to such action would be daunting. Consideration of geoengineering also raises the question of solar radiation management (SRM), a type of geoengineering that seeks to reflect sunlight and therefore reduce warming.

- Bioenergy with carbon capture and storage (BECCS)**
Direct CO₂ capture from the air with storage (DACCS)
- Soil carbon uptake**
Through relatively simple changes in farming practices or the addition of biochar (partly burnt biomass) to the soil, the overall level of carbon in the farm soil can be raised, effectively sequestering CO₂ from the atmosphere. Biochar also makes soil more fertile.
- Building with biomass**
While common in many countries, building with wood is not a universal practice. Reintroducing wood into housing construction can sequester carbon for decades or even centuries.
- Reforestation**
Large-scale tree planting increases natural storage of carbon in biomass and forest floor soil. During the Great Depression, the US planted several billion trees to create hundreds of new national forests. Today, annual net sequestration of carbon in managed US forests offsets approximately 15% of the annual emissions of carbon that result from the combustion of fossil fuels.
- Enhanced ocean uptake**
The ocean is a huge store of CO₂, although increasing levels dissolved in the water are raising ocean acidity. However, uptake could be safely enhanced by increasing marine photosynthesis, such as through large-scale cultivation of seaweed in shallow areas.
- Mineralization and enhanced weathering**
Mineral carbonation involves reactions of magnesium or calcium oxides typically contained in mineral alkalies and industrial wastes with CO₂ to give inert carbonates. These reactions occur slowly in nature and over time trap vast quantities of carbon, but pilot facilities have been built to do this on an industrial scale and produce useful products.

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David Millar

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Enhanced weathering/mineralization

Requires mining of up to 4x scale of annual coal production

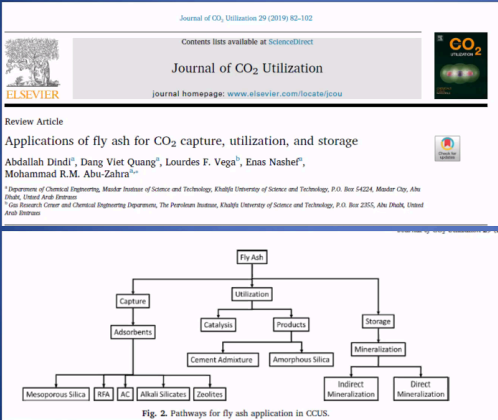


Fig. 2. Pathways for fly ash application in CCUS.

```

graph TD
    FA[Fly Ash] --> CAP[Capture]
    FA --> UTIL[Utilization]
    FA --> STOR[Storage]
    CAP --> ADS[Adsorbents]
    ADS --> MS[Mesoporous Silica]
    ADS --> RTA[RTA]
    ADS --> AC[AC]
    ADS --> AS[Alkali Silicates]
    ADS --> Z[Zeolites]
    UTIL --> CAT[Catalysis]
    UTIL --> PRD[Products]
    CAT --> CA[Cement Admixture]
    PRD --> ASi[Amorphous Silica]
    STOR --> MIN[Mineralization]
    MIN --> IM[Indirect Mineralization]
    MIN --> DM[Direct Mineralization]
          
```

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Unless you use *coal combustion waste*

Fig. 1. Fly ash contamination pathways.

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Solar Radiation Modification (SRM)

- Stratospheric Aerosol Injection
- Marine Cloud Brightening
- Marine sea surface brightening
- Altering albedo of sea or land ice

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4. By Niclas Hällström of WhatsNext, Sweden

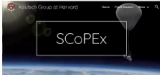


HOME Campaign Milestones


SCoPEX Sweden highlights






- First open-air experimentation: stratospheric balloon flight for development of Stratospheric Aerosol Injection ("Albedo Hacking") technology.
- Plans for first flight in June at Swedish Space Corporation in Sweden (Kiruna) announced by Harvard on 15 December 2020. Major mobilization by civil society and scientists calling for the cancellation of the project.


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SCoPEX Stratospheric Controlled Perturbation Experiment






HOME Campaign Milestones

SCoPEX Sweden highlights

- Letters by Swedish and international organisations, and the Saami Council.
- Key message: Rejection of the project.
"SAI is a technology with the potential for extreme consequences, and stands out as dangerous, unpredictable, and unmanageable. There is no justification for testing and experimenting with technology that seems to be too dangerous to ever be used."
- A battle of narratives and framing: The first flight is fundamentally dangerous since a slippery slope. SAI can never be a plan B.

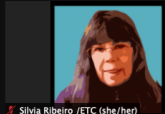




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Open letter requesting cancellation of plans for geoengineering related test flights in Kiruna




Cover: Brandon Wilson/VO

The Saami Council has together with Swedish environmental organisations sent a letter to the

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HOME Campaign Milestones

Mobilization in Sweden against SCoPEX

Greta Thunberg @GretaThunberg · 13. Feb.
A small piece of advice for humanity:
when you're in a hole - stop digging.

A crisis created by lack of respect for nature will most likely not be solved by taking that lack of respect to the next level...

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From Laura Dunn Canada - EN (sh... Great!

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David Millar

Niclas Hallström, WhatNext? (En...)

Basav Sen (he/him), Turtle Islan...

Carroll Muffett-English (he/him)

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HOME Campaign Milestones

SCoPEX Sweden highlights

- First open-air experimentation: stratospheric balloon flight for development of Stratospheric Aerosol Injection ("Albedo Hacking") technology.
- Plans for first flight in June at Swedish Space Corporation in Sweden (Kiruna) announced by Harvard on 15 December 2020. Major mobilization by civil society and scientists calling for the cancellation of the project.




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David Millar


Niclas Hallström, WhatNext? (En...)

martin vellea

Carroll Muffett-English (he/him)

1 Apr 2021 after widespread protests, Swedish Space Corporation has cancelled the balloon test
<https://etcgroup.org/content/saami-swedes-and-civil-society-stop-solar-geoengineering-trial-balloon>

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HOME Campaign Milestones

SCoPEx Sweden highlights

- Letters by Swedish and international organisations, and the Saami Council.
- Key message: Rejection of the project.
"SAI is a technology with the potential for extreme consequences, and stands out as dangerous, unpredictable, and unmanageable. There is no justification for testing and experimenting with technology that seems to be too dangerous to ever be used."
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Open letter requesting cancellation of plans for geoengineering related test flights in Kiruna



Cover: Brandon Wilson/UCO

The Saami Council has together with Swedish environmental organisations sent a letter to the

Silvia Ribeiro /ETC (she/her)

David Millar

Nicias Hallström, WhatNext? (En...)

martin viliela

Carroll Muffett-English (he/him)


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5. Anja Chalman of geoengineeringmonitor.org explains how to use their interactive map system which tracks hundreds of projects worldwide

Recording You are viewing Anja, EN, she/her... View Options

Geoengineering Map

https://map.geoengineeringmonitor.org



Search Filter all Greenhouse Gas Removal Solar Radiation Management Weather Modification Other

© Mapbox © OpenStreetMap contributors Improve this map 1998 25.01.2021

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David Millar

Nicias Hallström, WhatNext? (En...)

martin viliela

Carroll Muffett-English (he/him)

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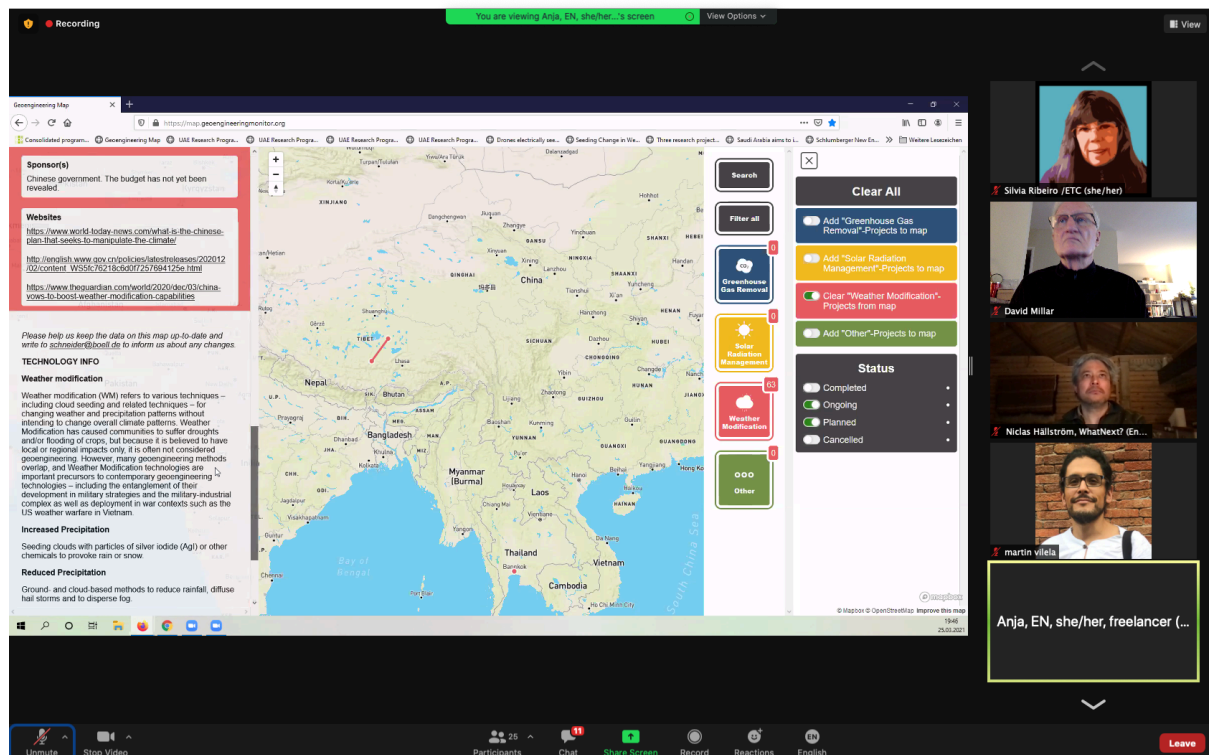
For instance, click on a button in Alaska. ArcticIce (formerly Ice911) proposes to increase albedo by spreading silica beads on Alaskan sea ice. No consultation with native peoples, risk of pollution, changes to wildlife & ecosystems. Read description of project in lefthand column.

The screenshot shows a Zoom meeting in progress. The main window displays a presentation slide titled "Arctic Ice Project (former Ice911) - North Meadow Lake". The slide features a map of the Arctic region with a green line indicating the project location. The left sidebar contains a description of the project, and the right sidebar shows a search bar and a list of results for "north meadow". The Zoom interface includes a top bar with recording status and a bottom bar with participant controls.

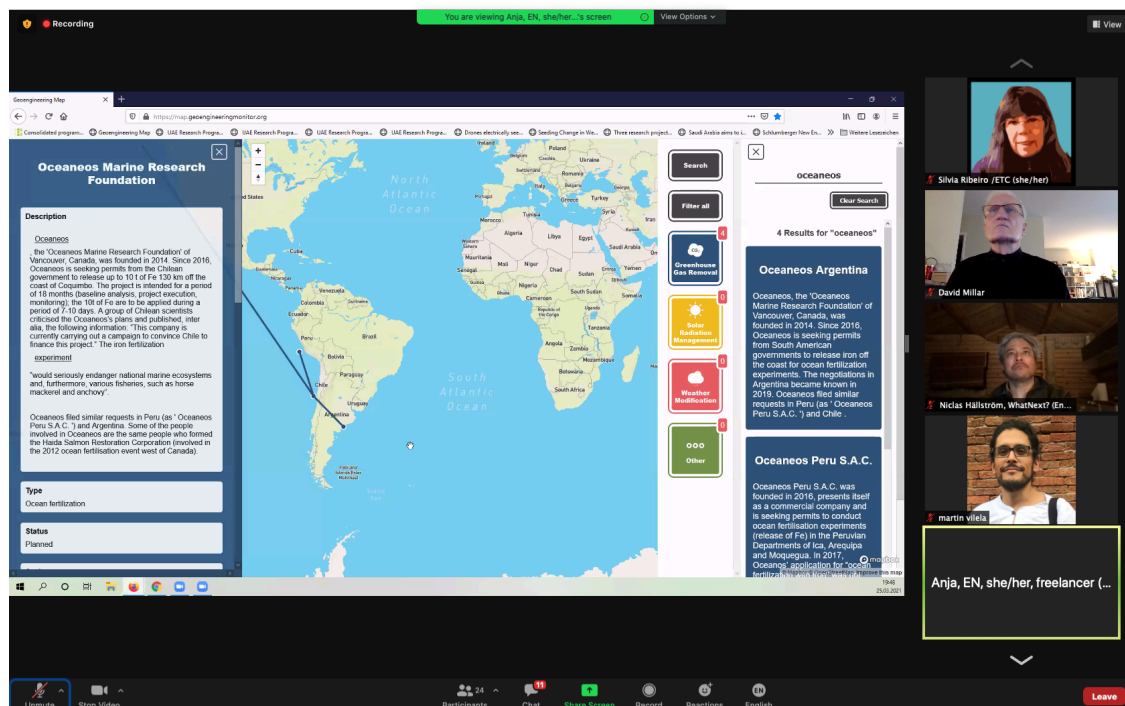
Green lines link to financial and corporate sponsors, lobbyists.

The screenshot shows a Zoom meeting in progress. The main window displays a presentation slide titled "Arctic Ice Project (former Ice911) - Menlo Park". The slide features a map of California with green lines indicating the project location. The left sidebar contains a description of the project, and the right sidebar shows a search bar and a list of results for "Type here". The Zoom interface includes a top bar with recording status and a bottom bar with participant controls.

Example 2: Chinese govt's Sky River / Tianhe project plans several thousand silver-iodide burning chambers to "seed" rainclouds over Chinese drought-stricken northern plains, a major food source for Beijing and other N China cities. Plans to extend this to 63% of China's land mass. Changes rainfall patterns for the whole of Asia, could cause droughts in India and S Asia, unpredictable climate chaos.



Oceaneos project in Peru, Chile, Argentina. Already tried on Canada's West Coast but Haida nation revolted to stop it. Ocean fertilization with iron powder, supposedly taken up by phytoplankton which in the process absorb C₂. Supposedly stops ocean acidification (due to climate change, increasing nability of oceans to act as "carbon sinks"). Risk of unpredictable changes to ecosystems, dead zones.



Closeup of lefthand column - next image -- includes details of financiers and corporate links.

Oceaneos Marine Research Foundation

Description

Oceaneos


, the 'Oceaneos Marine Research Foundation' of Vancouver, Canada, was founded in 2014. Since 2016, Oceaneos is seeking permits from the Chilean government to release up to 10 t of Fe 130 km off the coast of Coquimbo. The project is intended for a period of 18 months (baseline analysis, project execution, monitoring); the 10t of Fe are to be applied during a period of 7-10 days. A group of Chilean scientists criticised the Oceaneos's plans and published, inter alia, the following information: "This company is currently carrying out a campaign to convince Chile to finance this project." The iron fertilization

experiment

"would seriously endanger national marine ecosystems and, furthermore, various fisheries, such as horse mackerel and anchovy".

Oceaneos filed similar requests in Peru (as 'Oceaneos Peru S.A.C. ') and Argentina. Some of the people involved in Oceaneos are the same people who formed the Haida Salmon Restoration Corporation (involved in the 2012 ocean fertilisation event west of Canada).

6. Breakout rooms for discussion of HOME campaign, how to work together strategically.



Assembly Objectives

1. Activate the Campaign by bringing together HOMEies to reinforce solidarity, re-establish connections and develop familiarity;
2. Be able to update HOMEies of the most crucial and real-world geoengineering updates and emphasize the urgency of action;
3. Share relevant geoengineering-related resources that the HOME Campaign and Geoengineering Monitor have developed over the last few years;
4. Identify the type/s of support needed by HOMEies to capacitate themselves and be able to engage more in mobilization activities.

www.handsoffmotherearth.org - coordinator@handsoffmotherearth.org - www.geoengineeringmonitor.org

Recording You are viewing Laura Dunn Canada...s screen View Options

25 March 2021 - HOME Assembly

https://jamboard.google.com/d/10Jdzur6NO6GY8rm-zzQil649tpNtoH6KRIPJM820k/viewer?tf=3

25 March 2021 - HOME Assembly

Set background Clear frame

Call for Solidarity and Action

Please use the sticky note function to write down your pledges/commitment and post it in your location :)

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Unmute Start Video

Participants Chat Share Screen Record Reactions English

View

Laura Dunn Canada - EN (she/her)

David Millar

Carroll Muffett-English (he/him)

Cynthia Mellon She/Her English...

Basav Sen (he/him), Turtle Island...

Leave

How can the HOME Campaign Team support HOMEies in building their capacity and enable a more active engagement? organize teach-ins? arrange peer to peer discussions?



- double tap to write insights on Question 1

What assistance can the HOME network provide to the domestic fight at the policy level in the US?

Response 1: lots of signatories but just a few active orgs, most outside of the US; most US groups have not wanted to touch geoengineering (have other priorities) and now it's moving really quickly and capacity to deal with this is limited. How do we build out the HOME campaign so that we make use of capacity that already exists across the movements? US movements aligned around CCS and BECCS -> open up to talk about the harder and more difficult stuff like DACCS and SRM.

Response 2: Need to work around net zero in the US as well as a frame.

Question: how do we better connect North American Working Group and HOME?

Aligned US movements: No fossil fuel bailout, GGON (but even in that space, some folks want to keep "all options on the table"); explore the natural partnerships first. Mobilize those groups that are aligned, have positions but have not been outspoken on geoengineering yet, like Sierra Club.

How about US CAN: CAN US has taken a clear position against SRM and CCS.

Some US CAN members go to international fora and take positions contrary to US CAN which leads to conflict.

What kind of research would be useful / what are we not tracking? Subsidies - are included in the map and will be part of next quarterly review.

Significant needs: There are a lot of scientists aligned and willing to speak (but we don't have the connected with us and organized); need more reports / research (short, credible etc.) that debunk specific technologies.