

Big Oil v. Our Health: How Industry Has Stymied Action



Moderator: Bev Harp

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Medical Society Consortium
on Climate and Health*



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The Medical Society Consortium on
CLIMATE & HEALTH



How Big Carbon has blocked progress on climate change

Benjamin Franta, JD, PhD

Senior Research Fellow and Founding Head,
Climate Litigation Lab, Oxford Sustainable Law
Programme, Smith School of Enterprise and
the Environment

1977—1984: Exxon internal research programme

PROPRIETARY INFORMATION
FOR AUTHORIZED COMPANY USE ONLY

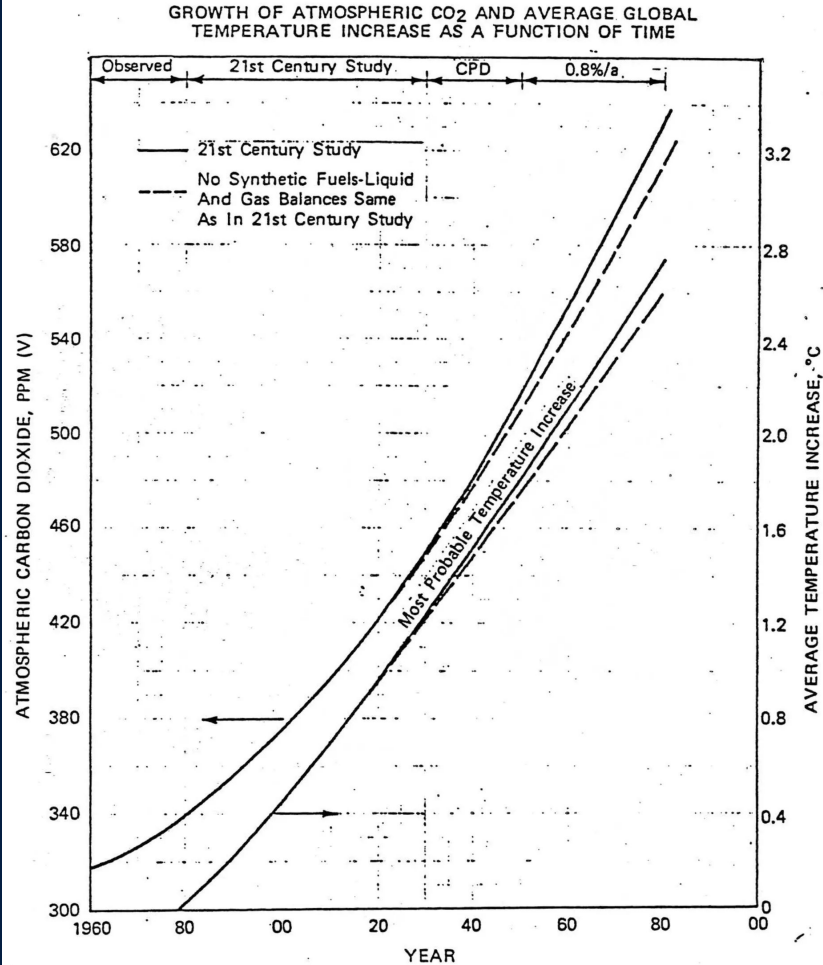
CO₂ GREENHOUSE EFFECT
A TECHNICAL REVIEW

PREPARED BY THE
COORDINATION AND PLANNING DIVISION
EXXON RESEARCH AND ENGINEERING COMPANY

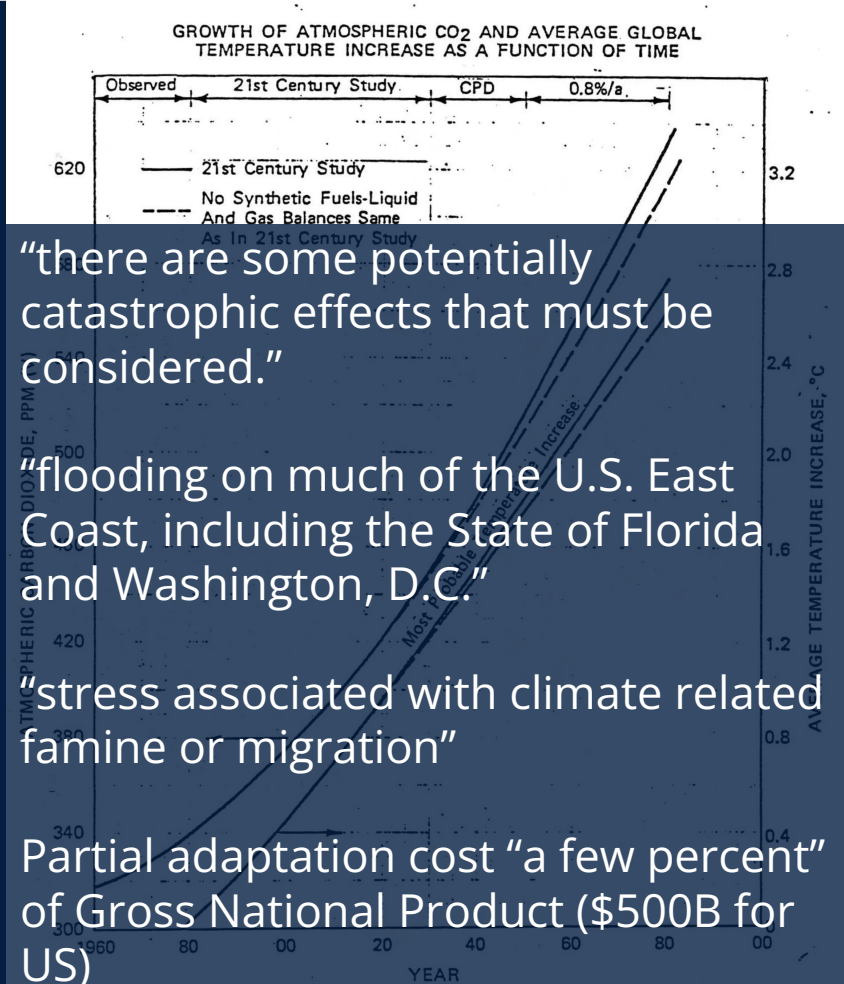
APRIL 1, 1982

EC-11-5/A2

1977—1984: Exxon internal research programme



1977—1984: Exxon internal research programme



“there are some potentially catastrophic effects that must be considered.”

“flooding on much of the U.S. East Coast, including the State of Florida and Washington, D.C.”

“stress associated with climate related famine or migration”

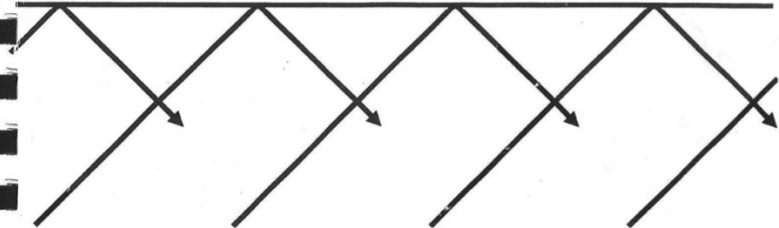
Partial adaptation cost “a few percent” of Gross National Product (\$500B for US)

1989: Shell internal scenarios

SCENARIOS

1989 – 2010

challenge
and
response



CONFIDENTIAL
GROUP PLANNING
PL89 S01
OCTOBER 1989



1989: Shell internal scenarios

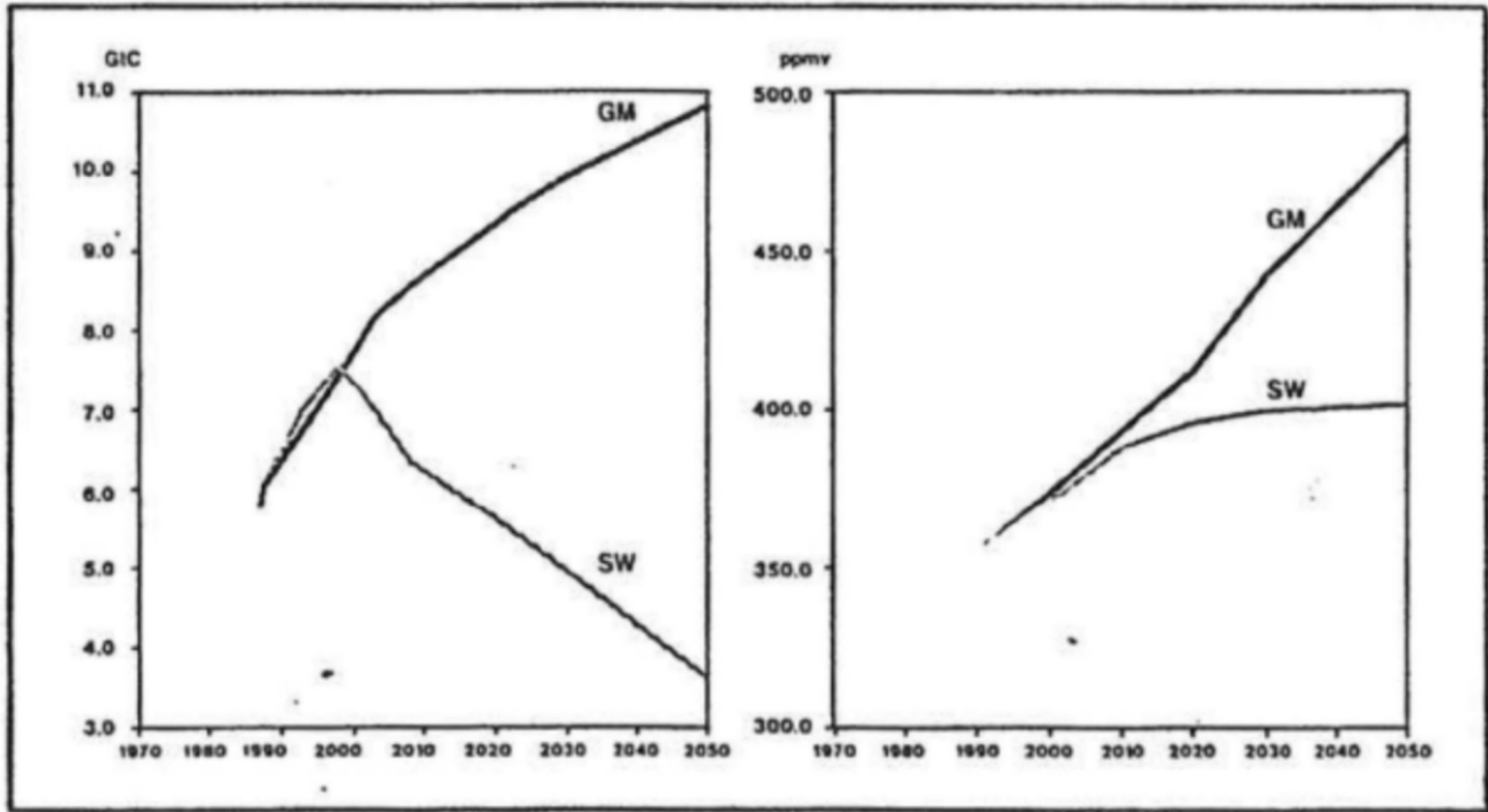


Chart 16: Global C02 Production to 2050

1989: Shell internal scenarios

Predicted effects of continued fossil fuel production:

"Considerably more" global warming ... "more violent weather – more storms, more droughts, more deluges. Mean sea level would rise at least 30 cm. Agricultural patterns would be most dramatically changed. Something as simple as a moderate change in rainfall pattern disrupts eco-systems, and many species of trees, plants, animals, and insects would not be able to move and adapt.

"The changes would, however, most impact on humans. In earlier times, man was able to respond with his feet. Today, there is no place to go because people already stand there. Perhaps those in industrial countries could cope with a rise in sea level (the Dutch example) but for poor countries such defences are not possible.

"The potential refugee problem in GLOBAL MERCANTILISM could be unprecedented. Africans would push into Europe, Chinese into the Soviet Union, Latins into the United States, Indonesians into Australia. Boundaries would count for little - overwhelmed by the numbers. Conflicts would abound. Civilization could prove a fragile thing."

Chart 16: Global CO₂ Production to 2050

1989: International delay strategy

POTENTIAL ENHANCED
GREENHOUSE EFFECTS

STATUS AND OUTLOOK

DUANE G. LEVINE

PRESENTATION
TO
THE BOARD OF DIRECTORS
OF
EXXON CORPORATION

FEBRUARY 22, 1989

STRATOSPHERIC OZONE/PEG ANALOGY

OZONE LAYER

- '74 ✓ ATMOSPHERIC CHEM/PHYS
- ✓ GROWTH IN [CFC'S] / [CO₂] & [TRACE GASES]
- ✓ INDUSTRIAL SOURCES
- ✓ MODELS: END EFFECT PROJECTIONS
- ✓ CONCEPT OF "DELAY"
- ✓ ENVIRONMENTAL CAUSE
- ✓ INTERNATIONAL OWNERSHIP
- ✓ US/UN AXIS
- ✓ CRITICAL EVENT
- ✓ CALL FOR ACTION

VIENNA CONVENTION

- '87 MONTREAL PROTOCOLS

1989: International delay strategy

STRATOSPHERIC OZONE/PEG ANALOGY

OZONE LAYER

ENHANCED GREENHOUSE

'74	✓	ATMOSPHERIC CHEM/PHYS	✓	'75
	✓	GROWTH IN [CFC'S] / [CO ₂] & [TRACE GASES]	✓	
	✓	INDUSTRIAL SOURCES	✓	
	✓	MODELS: END EFFECT PROJECTIONS	✓	
	✓	CONCEPT OF "DELAY"	✓	
	✓	ENVIRONMENTAL CAUSE	✓	
	✓	INTERNATIONAL OWNERSHIP	✓	
	✓	US/UN AXIS	✓	
	✓	CRITICAL EVENT	✓	
	✓	CALL FOR ACTION	?	
		<u>VIENNA CONVENTION</u>	?	
'87		<u>MONTREAL PROTOCOLS</u>	?	

1989: International delay strategy

STRATOSPHERIC OZONE/PEG ANALOGY

OZONE LAYER

ENHANCED GREENHOUSE

'74 ✓

ATMOSPHERIC CHEM/PHYS

✓ '75

✓ GROWTH IN (CFC'S) / (CO2) & (TRACE GASES) ✓

Strategy plan sent to fossil fuel companies worldwide, 1990:

✓ MODELS: END EFFECT PROJECTIONS ✓

1. Exaggerate uncertainties in climate science ✓
2. Insist on more research (and detection) before action
3. Exaggerate costs of fossil fuel controls, downplay costs of global warming ✓
4. Promote responses that preserve fossil fuel market share:
 - Fossil gas ✓
 - Efficiency ?
 - Reforestation / offsets ?

'87

VIENNA CONVENTION
MONTREAL PROTOCOLS

?

1989—2002: US delay strategy (Global Climate Coalition)

Global Climate Coalition Membership

Aluminum Association
American Electric Power Service Corporation
American Gas Association
American Iron & Steel Institute
American Mining Congress
American Nuclear Energy Council
American Paper Institute
American Petroleum Institute
Amoco Corporation
ARCO
Armco, Inc.
Association of Home Appliance Manufacturers
Automobile Importers of America
BHP - Utah International, Inc.
Business Roundtable
Chemical Manufacturers Association
Chrysler Corporation
Clean Air Working Group
Coalition Opposed to Energy Taxes
Consolidation Coal Company
Consumers Power Company
Council of Industrial Boiler Owners
Dow Chemical Company
E.I. Dupont de Nemours & Company, Inc.
Eastman Kodak
Edison Electric Institute
Electricity Consumers Resource Council
Ford Motor Company
General Motors Corporation
Georgia Pacific Corporation
Hercules Inc.
IBM
Jefferson Energy Foundation
Maytag Corporation
Motor Vehicle Manufacturers Association
National Association of Manufacturers
National Coal Association
National Steel Corporation
Occidental Chemical Corporation
Pacific Gas & Electric Company
Peabody Holding Company, Inc.
Petrochemical Energy Group
Petroleum Marketers Association of America
Phillips Petroleum Company
Portland Cement Association
PPG Industries
Process Gas Consumers Group
Rubber Manufacturers Association
Shell Oil Company
Society of the Plastics Industry, Inc.
Southern Company Services, Inc.
Texaco, Inc.
Union Carbide Corporation
UNOCAL Corporation
U.S. Chamber of Commerce
U.S. Council for Energy Awareness
U.S. Council for International Business

November 16, 1989

1989—2002: US delay strategy (Global Climate Coalition)

Global Climate Coalition Membership

Aluminum Association	General Motors Corporation
American Electric Power Service Corporation	Georgia Pacific Corporation
American Gas Association	Hercules Inc.
American Iron & Steel Institute	IBM
American Mining Congress	Jefferson Energy Foundation
American Nuclear Energy Council	Maytag Corporation
American Paper Institute	Motor Vehicle Manufacturers Association
American Petroleum Institute	National Association of Manufacturers
Amoco Corporation	National Coal Association
ARCO	National Steel Corporation
Armco, Inc.	Occidental Chemical Corporation
Association of Home Appliance Manufacturers	Pacific Gas & Electric Company
Automobile Importers of America	Peabody Holding Company, Inc.
BHP - Utah International, Inc.	Petrochemical Energy Group
Business Roundtable	Petroleum Marketers Association of America
Chemical Manufacturers Association	Phillips Petroleum Company
Chrysler Corporation	Portland Cement Association
Class Air Working Group	PPG Industries
Consolidation Coal Company	Process Gas Consumers Group
Consolidated Paper Industries	Shelton Mutual Insurance Company
Consolidated Paper Industries	Shell Oil Company
Dow Chemical Company	Societe Generale Finances Industry, Inc.
Dow Chemical Company	Southwest Paper Products, Inc.
Dunlop Tire Manufacturers & Company, Inc.	Texaco, Inc.
Edison Electric Institute	Union Carbide Corporation
Electricity Consumers Resource Council	UNOCAL Corporation
Ford Motor Company	U.S. Chamber of Commerce
	U.S. Council for Energy Awareness
	U.S. Council for International Business

William O'Keefe, Global Climate Coalition Chairman & API Vice President:

“Climate scientists don’t say that burning oil, gas and coal is steadily warming the earth.”

November 16, 1989

- Washington Post, 1997

2000—present: Fossil fuel companies portraying selves as solution



**IT'S TIME
OIL COMPANIES**

**GET BEHIND
THE DEVELOPMENT OF**

**RENEWABLE
ENERGY.**

 **Human Energy**

Something's got to be done.
So we're doing it. Right here in California.
Our venture capital arm is investing millions
in alternative energy start-ups.
We're testing next-generation solar technology
at our Bakersfield operations.
And partnering with the Cleantech Open to help
energy entrepreneurs bring new ideas to life.
We're not just behind renewables.
We're tackling the challenge of making them
affordable and reliable on a large scale.
Learn more at chevron.com/weagree

Rex Northen **WE AGREE.** *Desmond King*

Rex Northen
Executive Director
Cleantech Open

Desmond King
President, Chevron Technology Ventures
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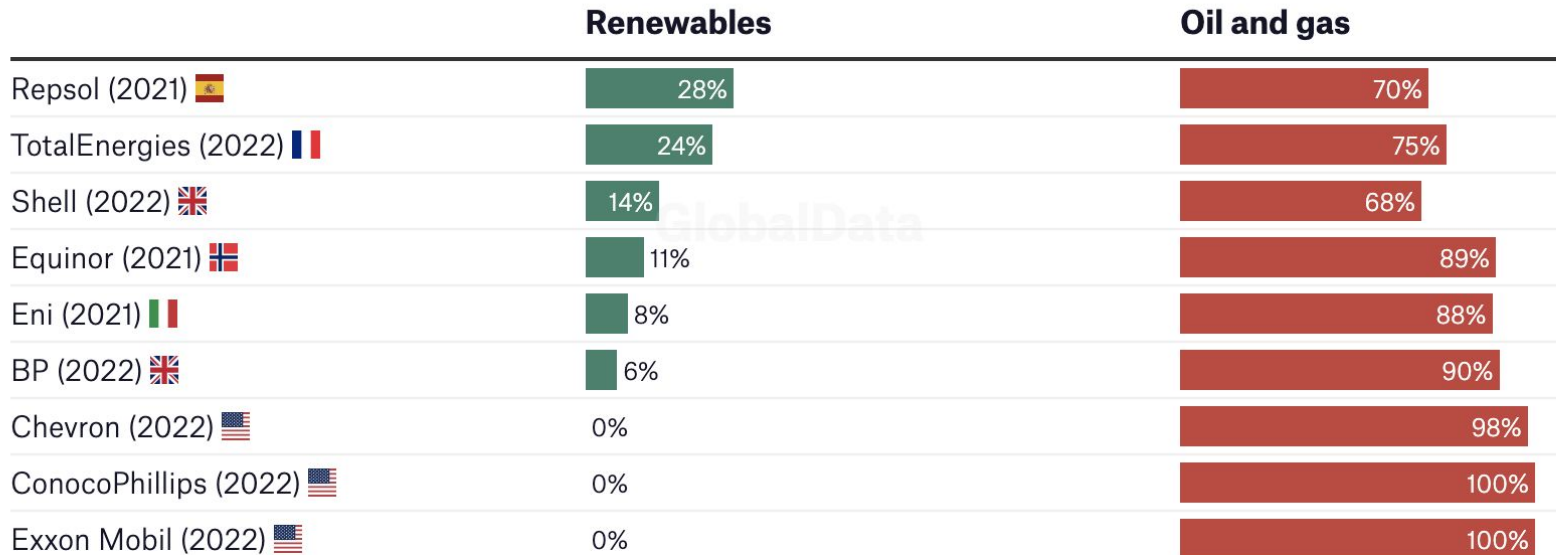
2000—present: Fossil fuel companies portraying selves as solution



2000—present: Mismatch between advertisements and reality

Oil and gas investments dwarf spending on renewables

Percentage of oil majors' capex spent on oil and gas versus renewables



Source: Reclaim Finance analysis of company data

E360 DIGEST

JULY 19, 2018

Fossil Fuel Interests Have Outspent Environmental Advocates 10:1 on Climate Lobbying

More than \$2 billion was spent on lobbying climate change legislation in the United States from 2000 to 2016, with the fossil fuel industry, transportation companies, and utilities outspending environmental groups and the renewable energy industry 10 to 1, according to a [new analysis](#) published in the journal *Climatic Change*.

Damages: Heat waves

Forbes

FORBES > BUSINESS

BREAKING

Heat Waves Driven By Climate Change Have Cost The World \$16 Trillion Since The 90s

Robert Hart Forbes Staff

I cover breaking news.

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Oct 28, 2022, 02:00pm EDT

TOPLINE Heat waves propelled by climate change have cost the global economy at least \$16 trillion since the early 1990s, according to a study [published](#) Friday in the journal *Science Advances*, a burden that has disproportionately fallen on the world's poorest and least polluting nations and will fuel international debate over who should be paying for the consequences of global warming.

Drivers of climate litigation

New historical discoveries continue to fuel litigation

The New York Times

The 'Skeletons' in Big Oil's Closet

There's growing evidence that fossil fuel companies knew their product would harm the climate, and that's driving lawsuits around the world.

Share full article



Eni offices near Milan. The company is controlled by the Italian government. Stefano Rellandini/Reuters



By **Manuela Andreoni**

May 16, 2023

BIG OIL v. OUR HEALTH

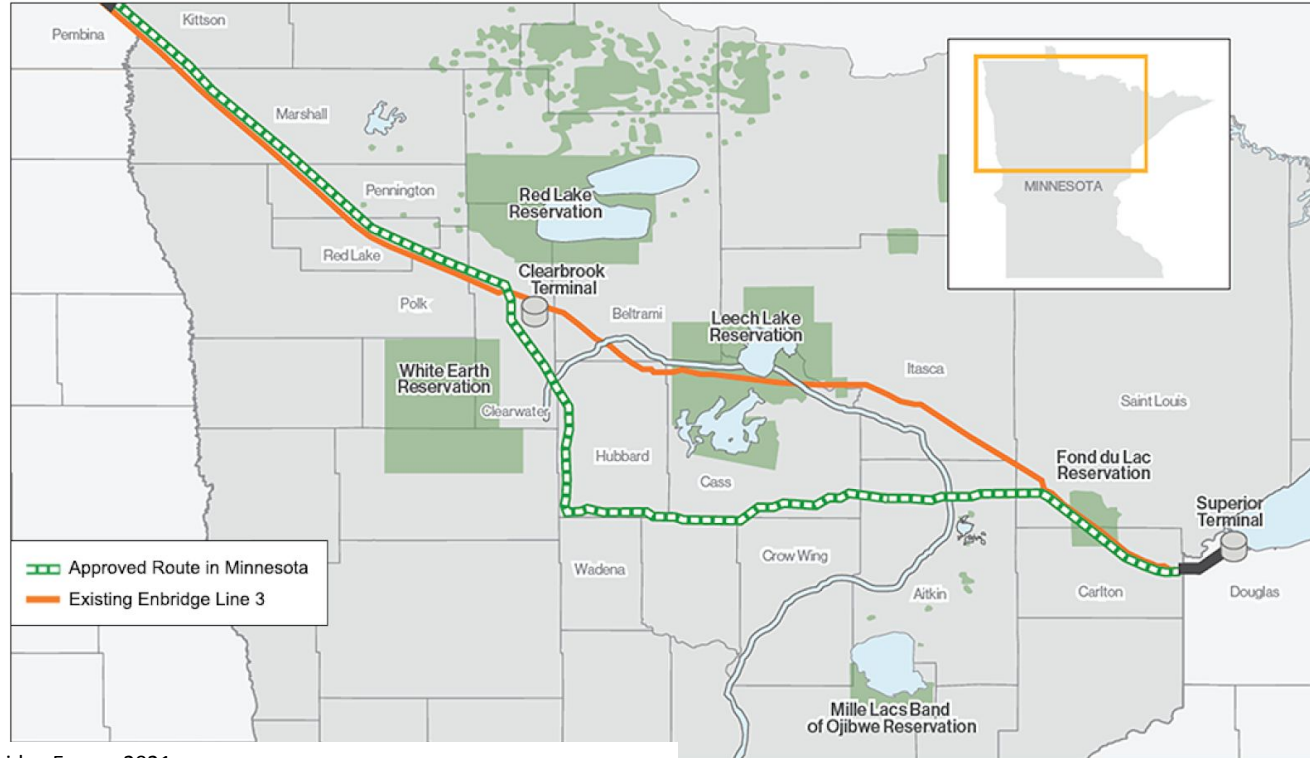
2024 Annual Meeting: From the Clinic to the Capitol
The Medical Society Consortium on Climate and Health
February 11, 2024

Vishnu Laalitha Surapaneni, MD, MPH
Member, Health Professionals for a Healthy Climate
Email: vishnulaalitha@gmail.com
Twitter: [@LaaliMD](https://twitter.com/LaaliMD)



ENBRIDGE LINE 3 “REPLACEMENT” PROJECT (NOW LINE 93)

Enbridge Line 3 Current vs Approved Pipeline Route



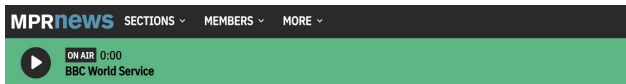


David Dodge, The Pembina Institute, Boreal forest along the Athabasca River
(creativecommons.org/licenses/by-nc-sa/2.0/)



Dru Oja Jay, Dominion, tar sands, Alberta
(creativecommons.org/licenses/by/2.0/)

ENBRIDGE'S DIRTY HISTORY



Oil and water: The Line 3 debate

30 years later, echoes of largest inland oil spill remain in Line 3 fight

Dan Kraker and Kirsti Marohn Grand Rapids, Minn. March 3, 2021 5:22 PM



It took years to clean up after an oil pipeline burst, gushing gushed 1.7 million gallons of crude onto the landscape near Grand Rapids, Minn., on March 3, 1991. Here, crews clean up along an area river -- a week after the spill.

Screengrab from video shot by Harry Hutchins

Source: Dan Kraker and Kirsti Marohn, March 3, 2021, 30 years later, echoes of largest inland oil spill remain in Line 3 fight, MPR news, <https://www.mprnews.org/story/2021/03/03/30-years-ago-grand-rapids->

LARGEST SPILL

Line 3

1.7 million gallons of crude oil
Prairie River, Grand Rapids, Minnesota
1991

COSTLIEST SPILL

Line 6b

\$ 177 million
Kalamazoo river, Michigan
2010



August 9, 2010 - Aerial view of oil sheen emitting from contaminated vegetation at the Ceresco Dam area between the spill site and Battle Creek, Michigan. More about EPA's response to the Enbridge oil spill: www.epa.gov/enbridgepill/

A TEACH-IN AT THE MINNESOTA GOVERNOR'S OFFICE



June 2020

Health Risks of the Enbridge Line 3 Pipeline Replacement Project



Photo: US EPA

Surapaneni, VL, Doheny, B, Hunter, D, Nath, C, Health Risks of the Enbridge Line 3 Pipeline Replacement Project, Published by Health Professionals for a Healthy Climate, <https://drive.google.com/file/d/1OWH6ohWaL92Urry6n6i3MVOn1DegO2Lb/view>





Outside the MN Public Utilities Commission
St.Paul, Minnesota



TESTIMONY AT THE MINNESOTA PUBLIC UTILITIES COMMISSION



“If a patient came to me with alcoholic liver disease or COPD, I would not encourage them to expand or increase the amount of alcohol they drink or tobacco they use, and it’s a similar situation here” – Dr. Mike Menzel, HPHC, testifying against Line 3

Screenshot from video uploaded by Minnesota Senate Media Services on Feb 3, 2020 titled Public Comments on Enbridge Line 3 Oil Pipeline Replacement Project (Part 1), https://www.youtube.com/watch?v=Yc_BXjnyB1w

HEALTH PROFESSIONAL & SCIENTIST ADVOCACY



Health Professional Delegation to the Headwaters of the Mississippi



On June 4, 2021, during a severe drought, the Minnesota DNR issued an amended permit that allowed Enbridge to pump up to nearly 5 billion gallons — almost 10 times more than the original amount the company had requested, without public input.

**UNITED NATIONS
ISSUES LETTER
REGARDING
VIOLATIONS OF
ANISHINAABE
HUMAN RIGHTS
FROM ENBRIDGE
LINE 3, REQUESTS
MEASURES FROM
THE UNITED STATES**

September 2, 2021



Photo by Ben Proulx at the Minnesota Headwaters during Line 3 HDP site visit last Feb. This is

September 1, 2021 - Anishinaabe Territory within Minnesota - The United Nations Committee on the Elimination of Racial Discrimination (CERD) has taken the extraordinary measure to request a response from the United States regarding allegations of human rights violations against the Anishinaabe associated with the Enbridge Line 3 pipeline construction.

On March 29, 2021, *Moaw the Earth and Gwich'in Calveeth* submitted a Request for Early Warning Measures to CERD as part of an international strategy to elevate the human rights violations perpetrated by the U.S. and the state of Minnesota as to construction of the Enbridge Line 3 pipeline. This petition requested immediate intervention from CERD and detailed the continuing violations of Indigenous Peoples' rights, including the right to free, prior, and informed consent, the right to health, the right to culture, and the right to security and to be free from violence.



Sept 2021, United Nations issues letter regarding violations of Anishinaabe human rights from Enbridge Line 3, requests measures from the United States, [Stopline3.org](https://www.stopline3.org/news/unitednations), <https://www.stopline3.org/news/unitednations>, Retrieved Feb

**CODE RED
FOR HUMANITY**

**CODE RED
FOR EARTH
#STOPLINES**

Health Professionals
for a
Healthy Climate

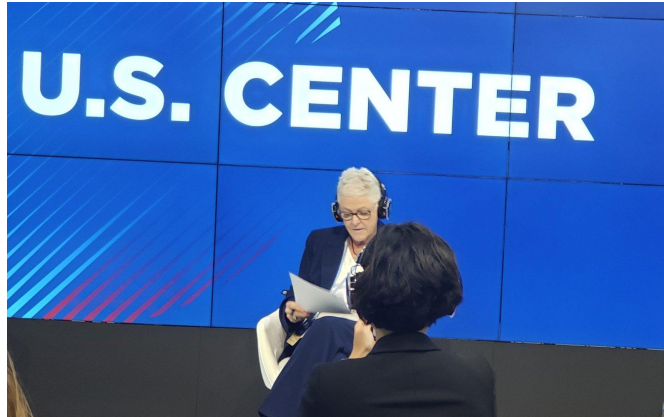


HEALTH PROFESSIONALS AGAINST LINE 3

A NATIONAL DAY OF ACTION CALLING ON THE U.S. ARMY CORPS



LINE 3 ADVOCACY AT COP26



President Joseph R. Biden, Jr.
The White House
1600 Pennsylvania Ave. NW
Washington, DC 20500

September 13, 2021
Dear President Biden,

We are concerned health professionals across the country on the frontlines of climate change. Our patients and communities are already facing health impacts from extreme heat, unprecedented drought, raging wildfires, and other effects of global warming. [Climate change is a health crisis](#), and as stated unequivocally in the IPCC report released on August 9, we need action *now*.

Health Professionals' letter to Biden: Stop Line 3

WAADOOKAWAAD AMIKWAG

Ojibwe for 'Those Who Help Beaver'



Screengrab from video by Waadookawaad Amikwag / Those Who Help Beaver titled How Enbridge Breached the LaSalle Aquifer - One Year Ago and Still Leaking uploaded on Aug 5, 2022, <https://www.youtube.com/watch?v=OKVdXmr2aQM>

Bluestem Prairie

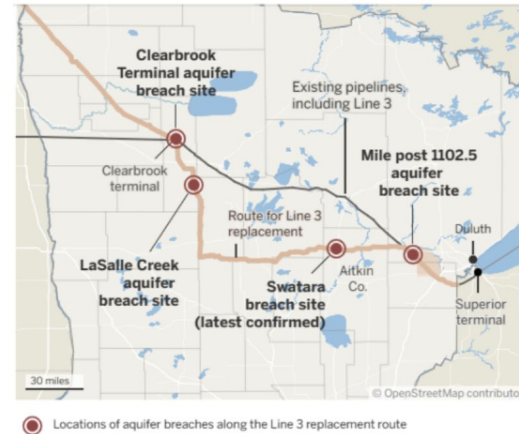
News from Greater Minnesota and South Dakota

[Home](#) [Archive](#)

« Nitrates in Southwestern Minnesota water: 'Do not give the water to infants' in Ellsworth | [Main](#) | [MN cities can no longer mandate turf grass lawns](#) »

Jul 28, 2023

Line 3: Fourth aquifer rupture confirmed by Enbridge & DNR; 45 other suspicious spots



Source: Sorenson, SJ (July 28, 2023), Line 3: Fourth aquifer rupture confirmed by Enbridge & DNR; 45 other suspicious spots, Bluestem Prairie, <https://www.bluestemprairie.com/bluestemprairie/2023/07/line-3-fourth-aquifer-rupture-confirmed-by-enbridge-dnr-45-other-suspicious-spots.html>, Retrieved on Feb 5, 2024

NEWS | HUMAN RIGHTS

Exploiting More Than the Land: Sex Violence Linked to Enbridge Line 3 Pipeliners

One toxic byproduct of pipeline construction has escaped public scrutiny: sexual assaults linked to Line 3 workers.

By Candice Bernd, Truthout
March 16, 2021



Source: Bernd,C (Marc Enbridge Line 3 Pipelin
[land-sex-violence-link](#)

An Oil Company Paid Police to Defend Its Pipeline From Protests

Enbridge is funding police who have violently responded to protests of its Line 3 pipeline.



By Audrey Carleton

Source: Carleton, A (Aug 9,2021), An Oil Company Paid Police to Defend Its Pipeline From Protests, VICE, <https://www.vice.com/en/article/4avp3w/an-oil-company-paid-police-dollar-2-million-to-defend-its-pipeline-from-protests>, Retrieved on Feb 5,2024

News | Coronavirus pandemic

Nearly 800 Line 3 pipeline workers tested positive for COVID-19

Healthcare workers say cases 'could have been avoided' if government had paused construction.



The Enbridge Line 3 pipeline is pictured in place to be buried near Park Rapids on the second day of the Treaty People Gathering, an organized protest of the Line 3 pipeline, built by Enbridge Energy, in Park Rapids, Minnesota, June 8, 2021. (Nicholas Ploss/Reuters)

By Hilary Beaumont
29 Jun 2021

Beaumont,H (29 June,2021), Nearly 800 Line 3 pipeline workers tested positive for COVID-19, Aljazeera, <https://www.aljazeera.com/news/2021/6/29/nearly-800-line-3-pipeline-workers-tested-positive-for-covid-19>, Retrieved on Feb 5, 2024

SECTIONS | 🔍

BUSINESS

Majority of those working on Enbridge pipeline from outside Minnesota

The goal was to hire 50% in-state employees.

By Mike Hughlett Star Tribune | FEBRUARY 18, 2021 — 3:43PM



ALEX KORMANN • STAR TRIBUNE

Enbridge contractors identified and marked an older Enbridge oil pipeline at one of the Line 3 work sites in Carlton, Minn., in December.

Source: Hughlett,M (Feb 18, 2021), Majority of those working on Enbridge pipeline from outside Minnesota, Star Tribune, <https://www.startribune.com/majority-of-those-working-on-enbridge-pipeline-from-outside-minnesota/600024633/>, Retrieved on Feb 5, 2024

“ENVIRONMENTALISTS” VS ENBRIDGE

CNN CNN.com

Minnesota pipeline a step closer to being replaced. Native Americans and environmentalists are ready for a fight

Protesters in Minnesota are now gearing up to stop the replacement of a pipeline that runs through the state.

Jul 17, 2018

Source: Kann,D (July 17,2018), Minnesota pipeline a step closer to being replaced. Native Americans and environmentalists are ready for a fight, CNN, <https://www.cnn.com/2018/07/17/us/minnesota-pipeline-replacement-protest-trnd/index.html>, Retrieved on Feb 5,2024



AP AP News

Oil pipeline foes protest Enbridge's Line 3 in Minnesota

Hundreds of protesters vowing to do whatever it takes to stop a Canadian-based company's push to replace an aging pipeline blocked a pump...

Jun 7, 2021

Kolpack,D (June 7,2021), Oil pipeline foes protest Enbridge's Line 3 in Minnesota, AP News, <https://apnews.com/article/mn-state-wire-minnesota-government-and-politics-arts-and-entertainment-environment-and-nature-38ba4df28f86672847e9006ef5b03c75>, Retrieved on Feb 5,2024



Reuters

Enbridge oil line scores a key win as Minnesota court affirms approval

CALGARY, Alberta, June 14 (Reuters) - The Minnesota Court of Appeals on Monday affirmed a state regulator's decision that there is...

Jun 14, 2021

Williams, N (June 14,2021), Enbridge oil line scores a key win as Minnesota court affirms approval, Reuters, <https://www.reuters.com/business/energy/minnesota-court-affirms-regulator-approval-enbridge-line-3-oil-pipeline-2021-06-14/>, Retrieved on Feb 5,2024



ALL SECTIONS | 🔍

StarTribune

BUSINESS

Chasm between supporters and those fighting Enbridge's \$2.6B proposed pipeline still wide

State regulators are holding hearings on the project again after the appellate court ruled an environmental review was flawed.

By Mike Hughlett Star Tribune | JANUARY 31, 2020 — 7:26PM



ELIZABETH FLORES — ASSOCIATED PRESS

PUC commissioners from left, John Tuma, Katie Sieben and Matt Schuerger, listened in St. Paul to citizens and activists on opposing sides of the Line 3 replacement.

Hughlett,M (Jan 31,2020) Chasm between supporters and those fighting Enbridge's \$2.6B proposed pipeline still wide, Star Tribune, <https://www.startribune.com/chasm-between-supporters-and-those-fighting-enbridge-s-2-6b-proposed-pipeline-still-wide/567466042/>, Retrieved on Feb 5,2024

REGULATORY CAPTURE & A “HOT POTATO”

MPRnews SECTIONS ▾ MEMBERS ▾ MORE ▾



Oil and water: The Line 3 debate

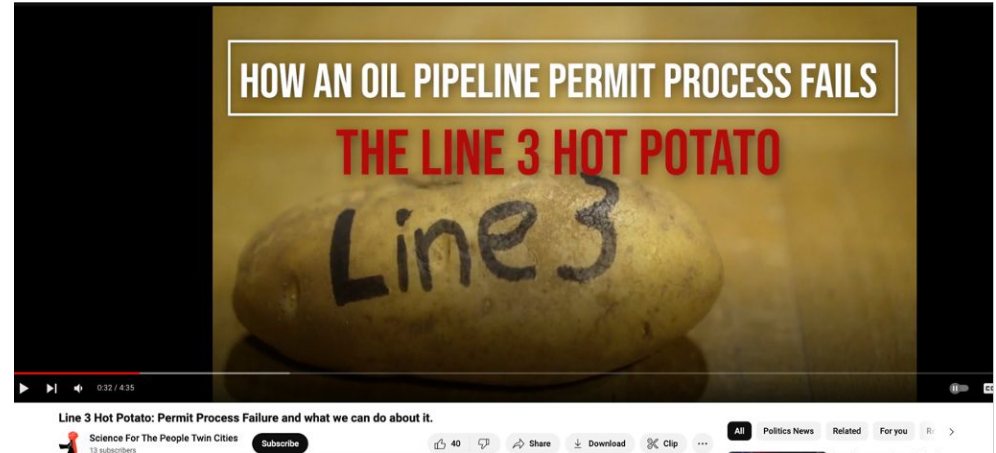
MPCA issues draft permits for Enbridge's Line 3 project

Dan Kraker Duluth February 27, 2020 4:32 PM



Construction vehicles transport a new section of pipeline to where it will be placed in the ground in September 2017 south of Superior, Wis., as part of the Enbridge Line 3 replacement project. Derek Montgomery for MPR News 2017

Source: Kraker, D (Feb 27, 2020), MPCA issues draft permits for Enbridge's Line 3 project, MPR News, <https://www.mprnews.org/story/2020/02/27/mpca-issues-draft-permits-for-enbridges-line-3-project>, Retrieved on Feb 5, 2024



Line 3 Hot Potato: Permit Process Failure and what we can do about it.



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Screenshot from video by Science for the People Twin Cities, uploaded on Feb 3, 2021 titled Line 3 Hot Potato: Permit Process Failure and what we can do about it, <https://www.youtube.com/watch?v=OiaRW33EtCI&t=3s>, Retrieved on Feb 5, 2024

BIG OIL VS PLANETARY HEALTH



Enbridge Pipelines in the Great Lakes Basin, Slide credit: Liz Kirk, FLOW



A section of the unfinished Mountain Valley Pipeline near Virginia's Brush Mountain in July 2020. Photo courtesy of Mountain Valley Watch
<https://appvoices.org/pipelines/mountain-valley-pipeline/>



Venture Global's Calcasieu Pass LNG Export terminal in Cameron Parish, Louisiana. Photo courtesy of Julie Dermansky, flight provided by SouthWings,
<https://www.sierraclub.org/articles/2022/03/gulf-coast-communities-fight>

FOSSIL FREE FOR HEALTH

PSR



**PHYSICIANS
FOR SOCIAL
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U.S. AFFILIATE OF INTERNATIONAL PHYSICIANS FOR THE PREVENTION OF NUCLEAR WAR

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FOR SOCIAL
RESPONSIBILITY**



CLIMATE EQUITY
POLICY CENTER



**HEALTHY
CLIMATE
WISCONSIN**

— formerly known as —
Wisconsin Health Professionals for Climate Action

MiCCA

Michigan Clinicians for Climate Action



Center for
Climate Change & Health



PHYSICIANS FOR
SOCIAL RESPONSIBILITY
SAN FRANCISCO BAY CHAPTER



**SCIENCE
& ENVIRONMENTAL
HEALTH
NETWORK**



VCCA
Virginia Clinicians for Climate Action



The Medical Society Consortium on
CLIMATE & HEALTH



Even the River Starts Small
<https://www.line3anthology.org/>



LN3: 7 TEACHINGS OF THE ANISHINAABE RESISTANCE



LN3, Seven teachings of the Anishinaabe Resistance, <https://www.stoplevel3.org/ln3film-video>, Retrieved on Feb 5, 2024

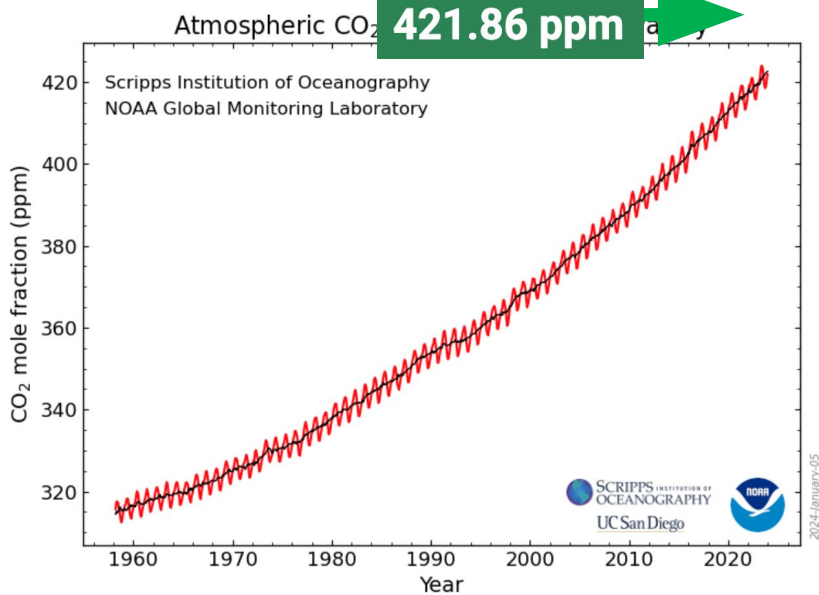
Fossil Free for Health

***February 11, 2024
MSCCH Annual Meeting
Linda Rudolph, MD, MPH***

Fossil fuel pollution and climate change are intertwined health crises

- Fossil fuels are the dominant contributor to climate change
 - Climate change is killing people
- Fossil fuel pollution is killing people
- Fossil fuel pollution and climate change exacerbate health inequities

Action is Urgent



- All people have the right to a healthy environment and a stable climate, now and in the future
- Every tenth of a degree of warming matters
- Current policies & commitments inconsistent with meeting climate & health goals
- There is still time to avert worst climate impacts and save millions of lives from fossil fuel pollution harms



“The modern addition to fossil fuels is not just an act of environmental vandalism. From the health perspective, it is an act of self sabotage.”

Dr. T. Ghebreyesus, Director-General, WHO

Action on climate change “must start with the polluted heart of the climate crisis: the fossil fuel industry.”

Antonio Guterres, U.N. Secretary General



Fossil Free for Health

Call to Action and Policy Action Agenda

Fossil Free for Health Policy Brief
Fossil Free for Health Policy Action Agenda

fossilfree4health.org

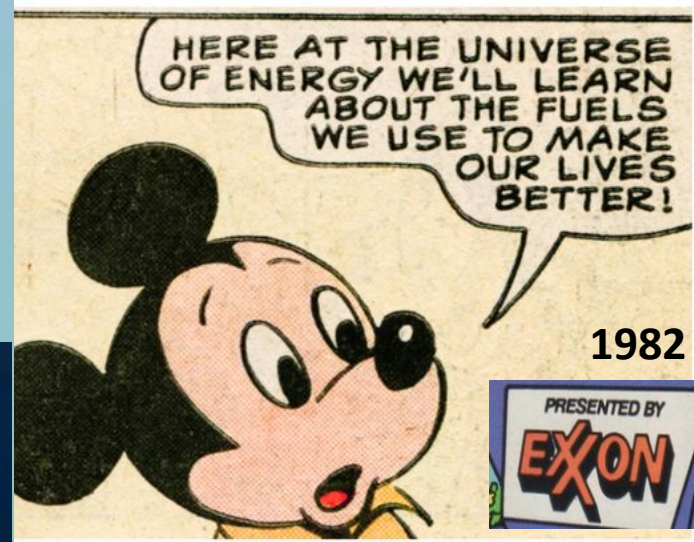
Let's Put All Our Energy on the Field.
**America's Oil & Natural Gas are Vital
to Our Energy Future.**

Accelerating Energy Innovations

Timely construction of modern, innovative natural gas and oil infrastructure is important to Americans' ability to access energy they can rely on every day.

Products made from oil and natural gas and delivered by infrastructure systems make everyday living more mobile, comfortable and healthier.

Restricting needed infrastructure limits access to energy and increases costs.




The fossil fuel industry, industry leadership, and the politicians they support are actively impeding efforts to protect our health from fossil fuel pollution and slow or stop progress on climate change.

1. Tell the truth. Counter fossil fuel industry disinformation.




The Health Consequences
of Involuntary Exposure
to Tobacco Smoke

A Report of the Surgeon General



Department of Health and Human Services



**RISING CHILDHOOD
ASTHMA RATES:
BROUGHT TO YOU
BY OIL AND GAS**



CAPE
Canadian Association
of Physicians
for the Environment
Association canadienne
des médecins
pour l'environnement
ACME

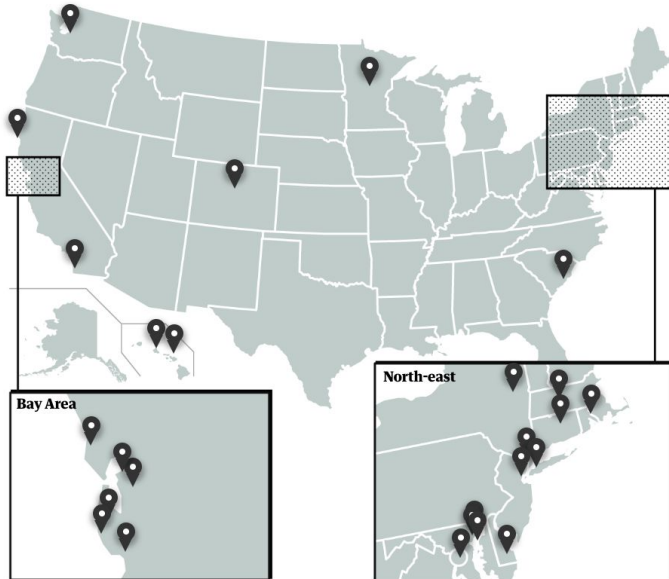
Burning fossil fuels is causing
an emergency. Doctors are calling
on government to protect our

Join the movement at cape.ca/



2. Make polluters pay. Hold industry accountable for harms.

Lawsuits against oil companies over climate change



Source: Guardian reporting and Columbia University's Sabin Center for Climate Change Law

The New York Times

Biden Administration Unleashes Powerful Regulatory Tool Aimed at Climate

Its new estimate of the economic impact of climate change could create the legal

ions.

“The U.S. Chamber of Commerce and American Farm Bureau Federation led a coalition of business organizations in filing a lawsuit on Tuesday aiming to block California's two landmark corporate climate disclosure laws.”

3. Stop making the problem worse.

Net Zero by 2050

A Roadmap for the
Global Energy
Sector

International
Energy Agency

“There is no need for need for
investment in new fossil fuel supply
in our net zero pathway.” IEA

iea

SPECIAL REPORT: GLOBAL WARMING OF 1.5 °C

Summary for Policymakers

“...greenhouse gas emissions from existing fossil fuel infrastructure is more than enough to push the world beyond 1.5C of global heating compared with pre-industrial times.”

IPCC

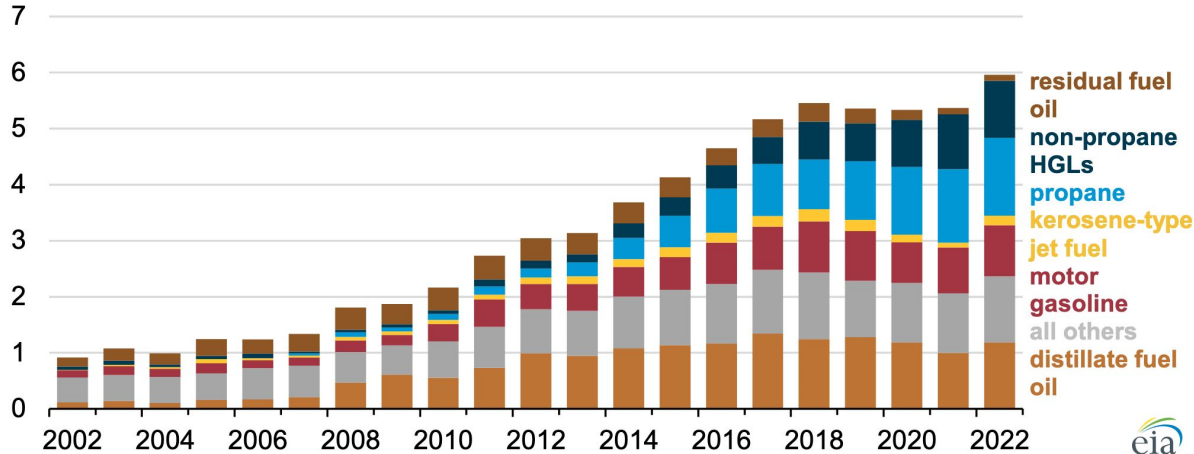
JANUARY 26, 2024

Statement from President Joe Biden on
Decision to Pause Pending Approvals of
Liquefied Natural Gas Exports

4. Equitably phase out fossil fuel extraction, refining, and use.

U.S. STATES COMMITTED TO PHASE OUT SALE OF GAS-POWERED CARS BY 2035
CA, CT, MA, NJ, NY, OR, RI, VA, VT, WA

Average exports of petroleum products from the United States during the first half of each year, Jan–Jun (2002–2022)
million barrels per day



Joe Biden is not coming for your gas stove

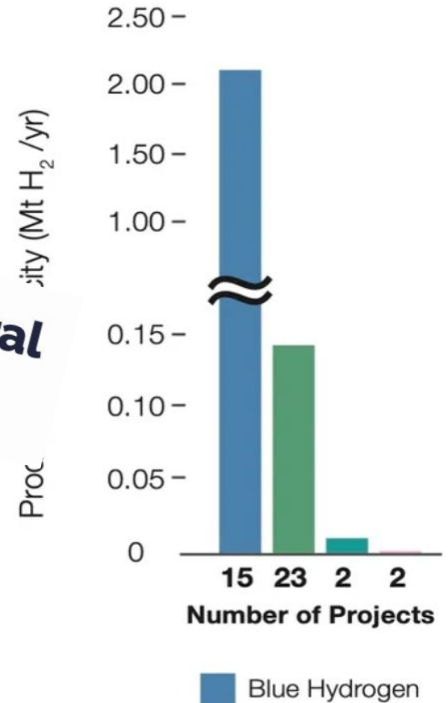


5. Avoid approaches that perpetuate the extraction and use of fossil fuels.

Carbon capture draws millions in lobbying, billions in federal subsidies



Announced Hydrogen Production Capacity



6. End public investments and tax breaks for fossil fuels

Fossil Fuel Subsidies Surged to Record \$7 Trillion

Scaling back subsidies would reduce air pollution, generate revenue, and make a major contribution to slowing climate change

IMF Blog,
8/2023

Conservative estimates put U.S. direct subsidies to the fossil fuel industry at roughly **\$20 billion per year**; with 20 percent currently allocated to coal and 80 percent to natural gas and crude oil.



Capitol Alert

SoCalGas fought a key California climate solution for years. It cost customers millions

7. Accelerate a just transition to an equitable pollution-free renewable energy economy

Nebraska approved its first clean energy goal in December 2021, becoming the **20th** U.S. state to commit to 100% clean electricity by 2050



Executive Order
14057

Catalyzing America's Clean Energy Industries and Jobs through Federal Sustainability Executive Order



**National
Transmission
Needs Study**

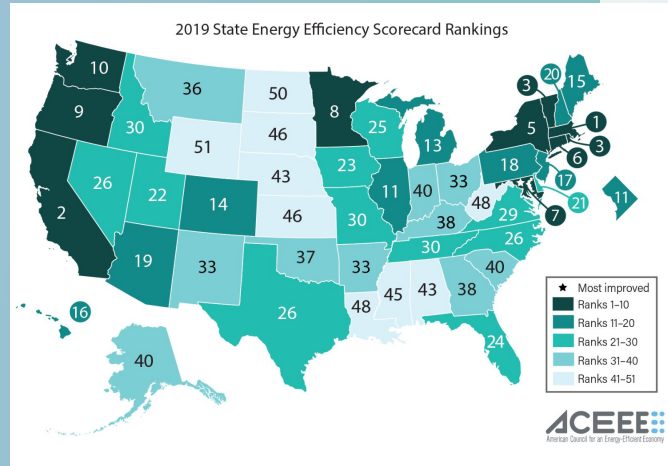
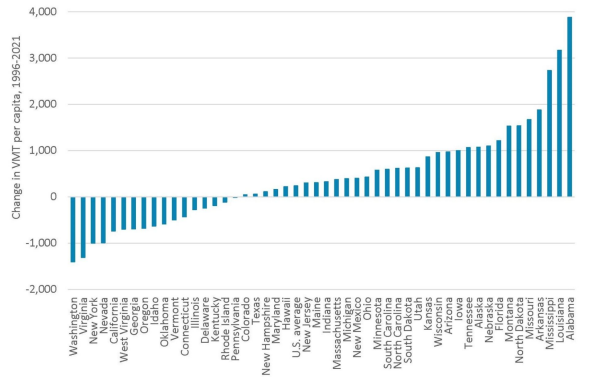
October 2023

The New York Times

***Truck Makers Team Up
to Push for Electric
Vehicle Chargers***

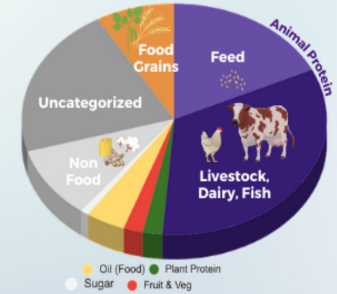
8. Accelerate the Transformation of Transportation and Land Use, Buildings and Housing, Industry, Agriculture, and Other Sectors to Reduce Dependence on Fossil Fuels

VMT per capita by U.S. State



2020 U.S. FARM SUBSIDIES & BAILOUTS

\$53 BILLION



9. Protect People from Exposure to Toxic Fossil Fuel Pollution



**Don't Delay - Clean
Air Today!**



**When California industry takes
its beef to the ballot**



A pump jack extracts oil at a drilling site next to homes in Signal Hill on June 9, 2021. Photo by Jae C. Hong, AP Photo

10. Support workers in the transition to a fossil-free economy



H.R. 6461 - Black Lung Benefits Improvement Act of 2023

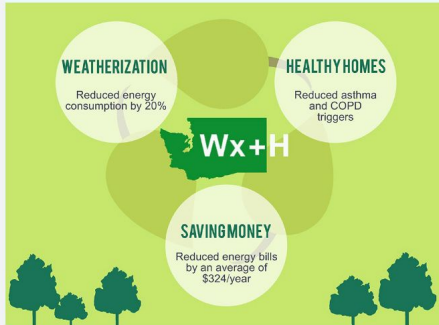


11. Support Community Health, Redress Health and Racial Inequities, and Protect the Most Vulnerable



**PERMAFROST
PATHWAYS**

WEATHERIZATION + HEALTH A GOOD BEGINNING



BMC launches innovative Clean Power Prescription program

Public Health Research Roadmap on Emerging Electricity Systems

California Energy Commission
Edmund G. Brown Jr., Governor

November 2017 | CEC-500-2017-035



How demand for lithium batteries could drain America's water resources

**PBS
NEWS
HOUR**

For the health of our patients and communities - and for our children's future - we must act now to stop fossil fuel pollution.

Fossil Free for Health

- *Endorse the Fossil Free for Health Call to Action*
- *Join the Fossil Free for Health Coalition*
- *Speak out about fossil fuel health impacts, the fossil fuel industry, and the need to rapidly phase out fossil fuels to protect health*

fossilfree4health.org