

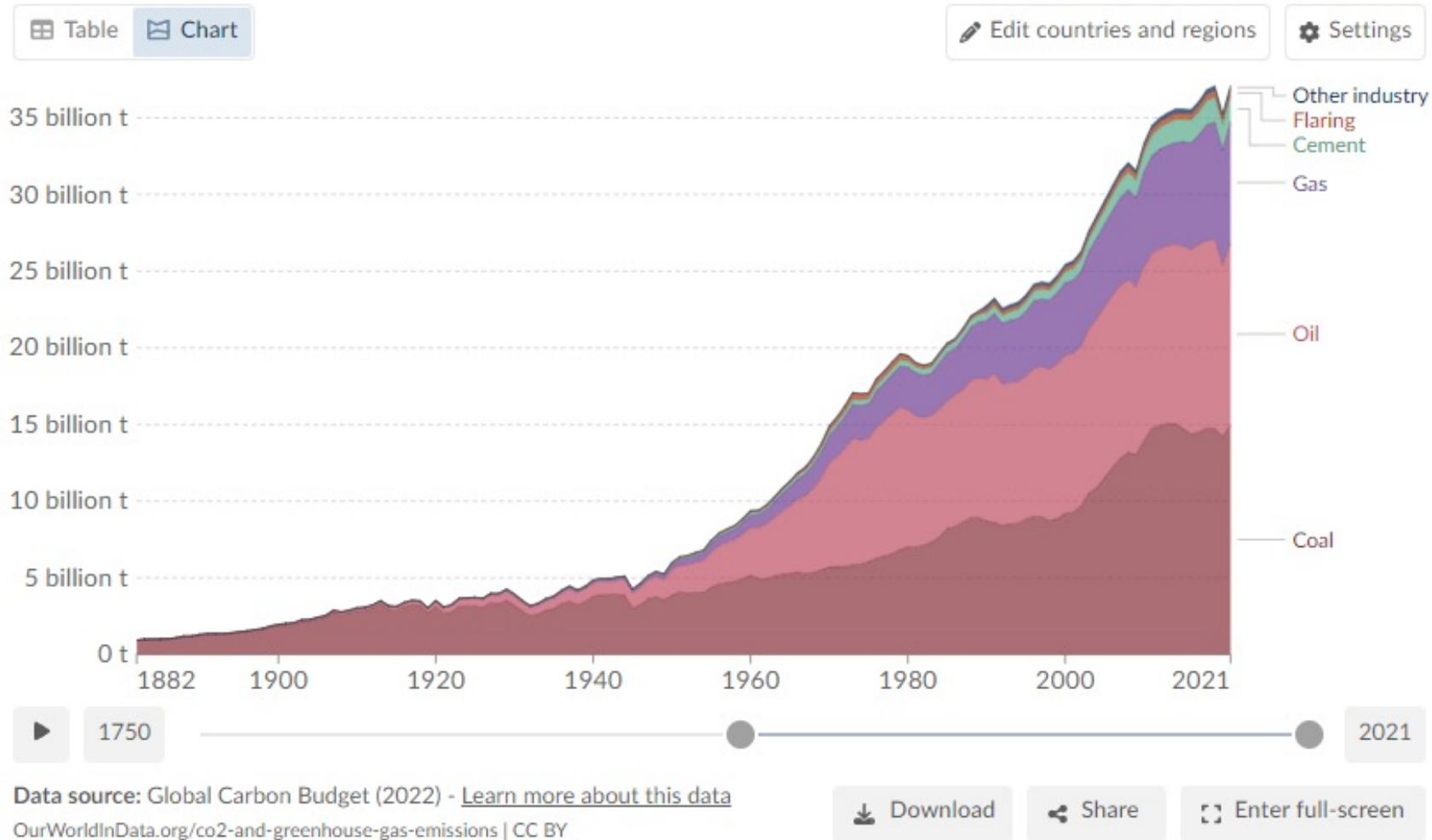


Where is the Money? Investment and divestment considerations for health care workers, associations and foundations.

October 19th, 2023



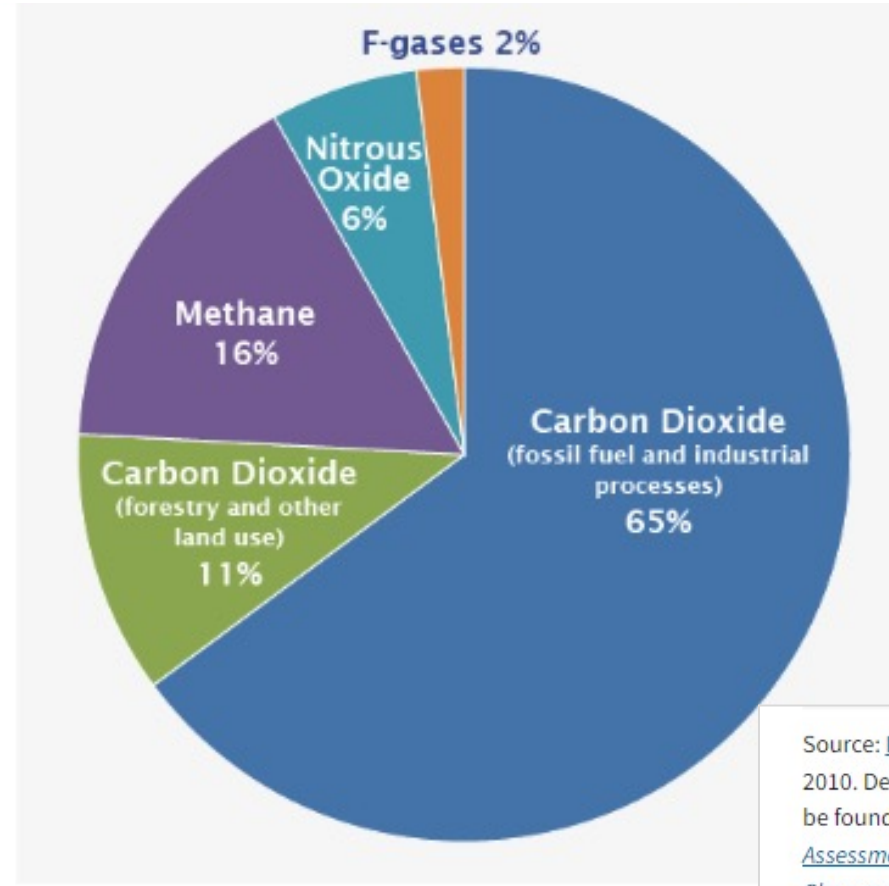
CO₂ emissions by fuel or industry type, World



Related: [CO₂ data: sources, methods and FAQs](#)

Global Emissions by Gas

- **Carbon dioxide (CO₂):**
 - Fossil fuel
 - Direct human-induced impacts on forests and other land use
- **Methane (CH₄):**
 - Agricultural activities
 - Waste management
 - Energy use
 - Biomass burning
- **Nitrous oxide (N₂O):**
 - Agricultural activities
 - Fossil fuel combustion
- **Fluorinated gases (F-gases):**
 - Industrial processes
 - Refrigeration
 - Consumer products



Source: [IPCC \(2014\)](#) [Exit](#) based on global emissions from 2010. Details about the sources included in these estimates can be found in the [Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change](#) [Exit](#).



The health impacts of fossil fuels

- “[A]ir pollution, primarily the result of burning fossil fuels, which also **drives climate change, causes 13 deaths per minute worldwide.**”

(WHO, October 2021: “WHO’s 10 calls for climate action to assure sustained recovery from COVID-19”)

- **Air pollution in Canada :**

- 15,300 premature deaths per year in Canada
- 2.7 million asthma symptom days per year
- 35 million acute respiratory symptom days per year

(Health Canada, 2021: “Health Impacts of Air Pollution in Canada: Estimates of morbidity and premature mortality outcomes – 2021 Report”)



Where is the Money?

Investment and divestment considerations for healthcare workers, associations, and foundations

October 19, 2023

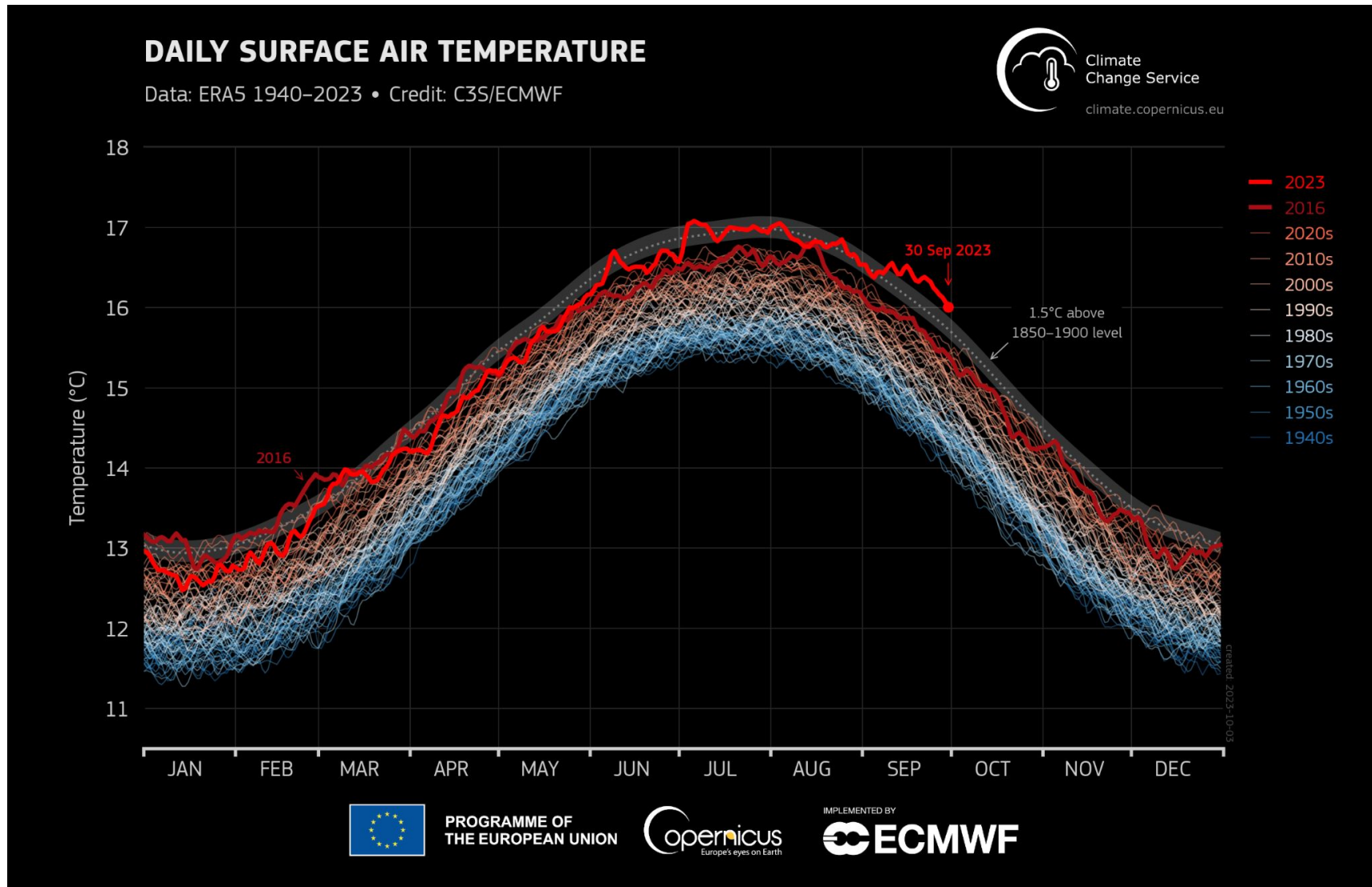
shift ACTION FOR
PENSION WEALTH
AND PLANET HEALTH

Disclosures

Funding

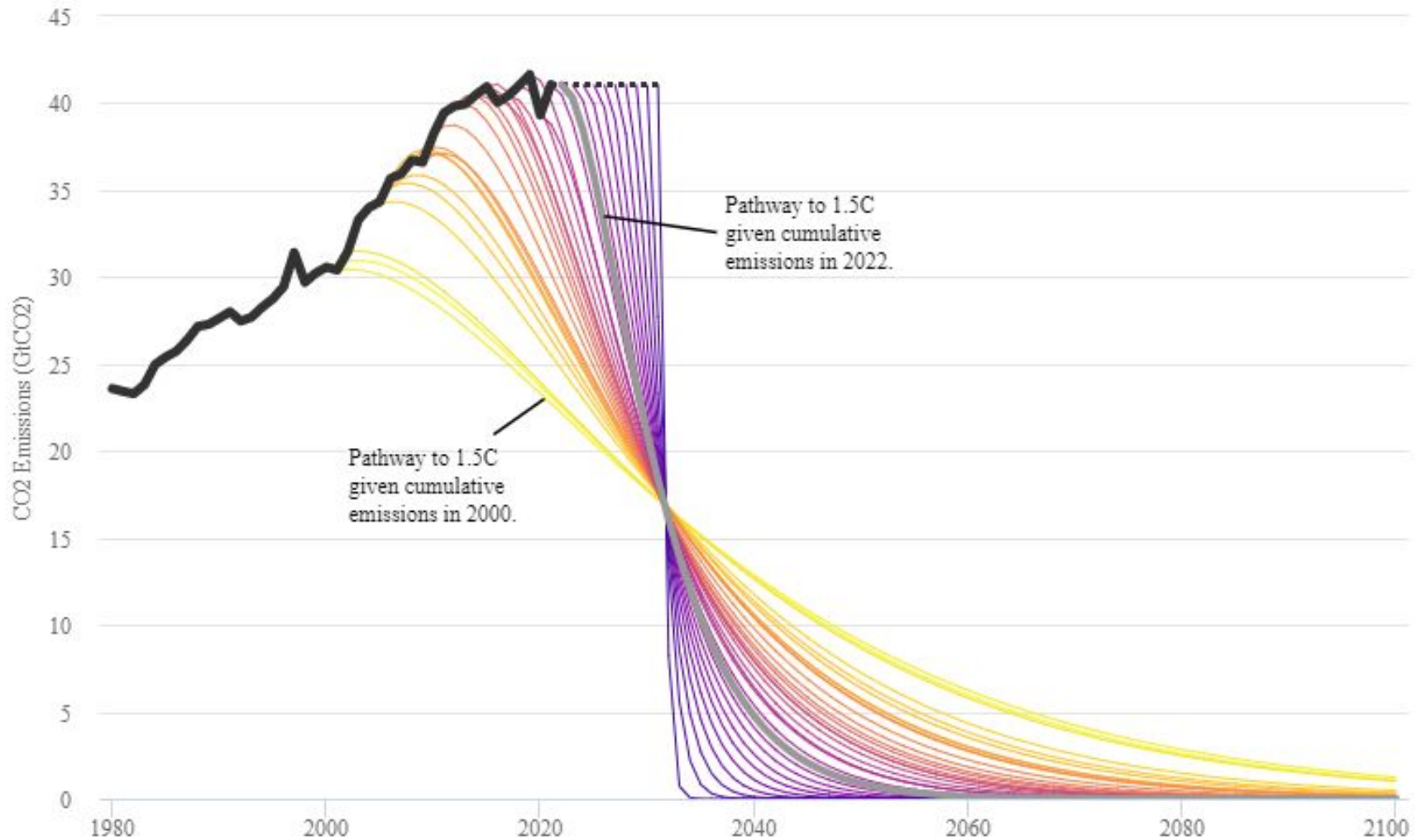
- Shift is a charitable project on MakeWay's shared platform, which provides operational supports, governance, and charitable expertise for changemakers. MakeWay (makeway.org) is a national charity that builds partnerships and solutions to help nature and communities thrive together.
- Shift's work is funded by grants from charitable environmental foundations:

The Results



Source: <https://climate.copernicus.eu/copernicus-september-2023-unprecedented-temperature-anomalies>

What Do We Need to Do?



<https://www.carbonbrief.org/unep-meeting-global-climate-goals-now-requires-rapid-transformation-of-societies/>

Emission reduction trajectories associated with a 50% chance of limiting warming below 1.5°C, without a reliance on net-negative emissions, by starting year. Solid black line shows historical emissions, while dashed black line shows emissions constant at 2022 levels. Source: Historical CO2 emissions from the [Global Carbon Project](#). 1.5°C carbon budgets based on the [IPCC AR6 report](#). Data and original figure design from [Robbie Andrews](#). Chart by Carbon Brief using [Highcharts](#).

What's the Role of the Financial Sector?

The financial sector's decisions can determine how bad the climate crisis gets.

“The concern is whether we will spend another decade doing worthy things but not enough... and we will blow through the 1.5°C mark very quickly.”

-Mark Carney in 2019

WHO Endorses Fossil Fuel Non-Proliferation Treaty

[FossilFuelTreaty.org](https://fossilfueltreaty.org)

- End expansion of any new fossil fuel infrastructure and production by immediately **ending activity and investment** across all new or expanded fossil fuel exploration, extraction, and building of infrastructure.
- **Phase out existing production and use** of fossil fuels in a fair and equitable manner in line with the 1.5C global climate goal.
- A **just transition** for communities and respect for Indigenous rights.

How is Finance Part of Decarbonizing the Health Sector?

From the individual to the systemic

- Personal investments of health professionals
- Healthcare association investments
- Institutional investments e.g. healthcare pensions, foundations

“Limiting global warming to 1.5C would require

**rapid, far-reaching
and unprecedented
changes in all
aspects of society”**

IPCC

Source: [ipcc.ch](https://www.ipcc.ch)

Presenter Disclosures

None.

Fossil fuel combustion is the biggest source of greenhouse gas emissions

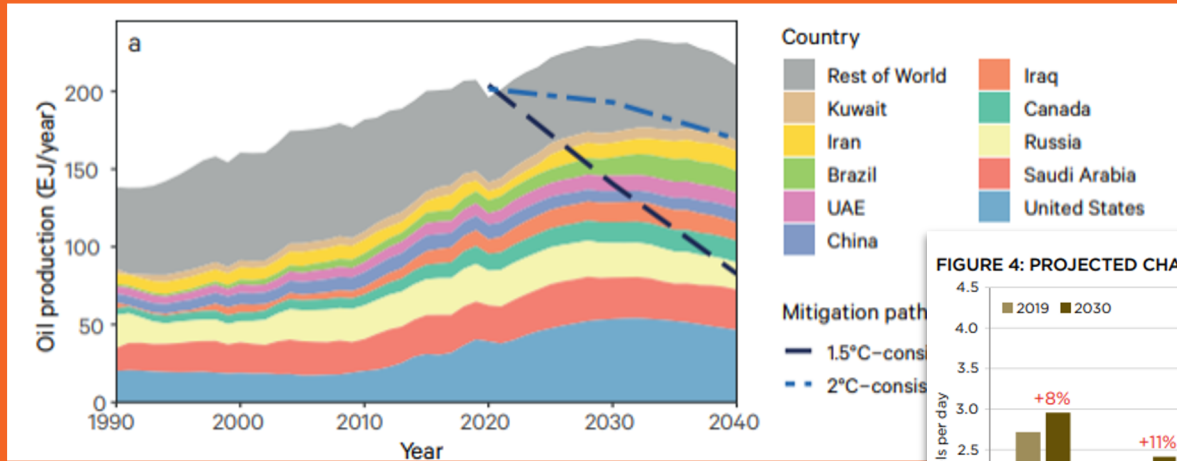
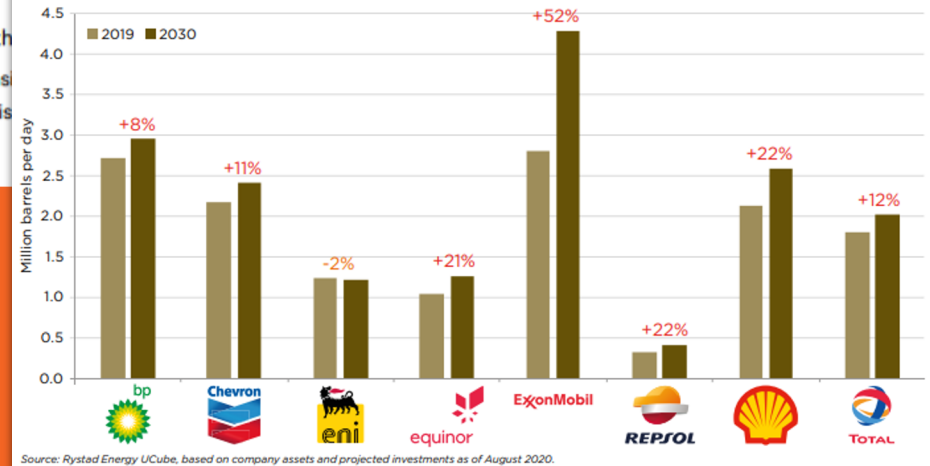


FIGURE 4: PROJECTED CHANGE IN OIL PRODUCTION TO 2030 BY COMPANY

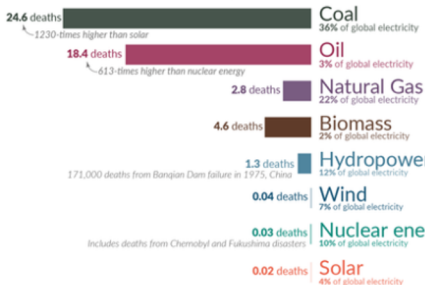


What are the **safest** and **cleanest** sources of energy?

Our World in Data

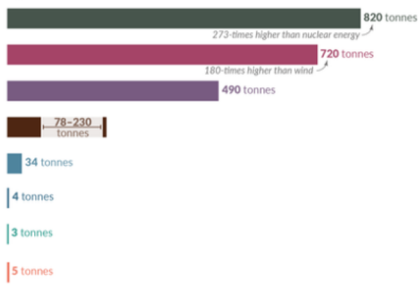
Death rate from accidents and air pollution

Measured as deaths per terawatt-hour of electricity production.
1 terawatt-hour is the annual electricity consumption of 150,000 people in the EU.



Greenhouse gas emissions

Measured in emissions of CO₂-equivalents per gigawatt-hour of electricity over the lifecycle of the power plant.
1 gigawatt-hour is the annual electricity consumption of 150 people in the EU.



Science

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HOME > SCIENCE > VOL. 355, NO. 6321 > THE IRREVERSIBLE MOMENTUM OF CLEAN ENERGY

POLICY FORUM CLIMATE AND ENERGY

The irreversible momentum of clean energy

Private-sector efforts help drive decoupling of emissions and economic growth

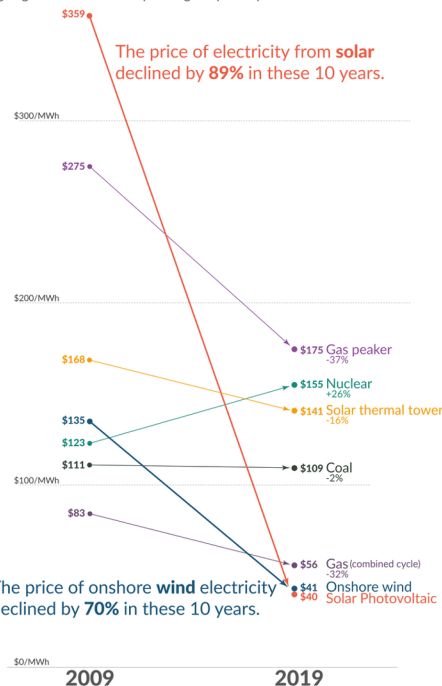
BARACK OBAMA Authors Info & Affiliations

SCIENCE • 9 Jan 2017 • Vol 355, Issue 6321 • pp. 126-129 • DOI:10.1126/science.aam5784

The price of electricity from new power plants

Our World in Data

Electricity prices are expressed in 'levelized costs of energy' (LCOE). LCOE captures the cost of building the power plant itself as well as the ongoing costs for fuel and operating the power plant over its lifetime.




Data: Lazard Levelized Cost of Energy Analysis, Version 13.0
OurWorldinData.org - Research and data to make progress against the world's largest problems. Licensed under CC-BY by the author Max Roser.



GRAND BALL GIVEN BY THE WHALES IN HONOR OF THE DISCOVERY OF THE OIL WELLS IN PENNSYLVANIA.

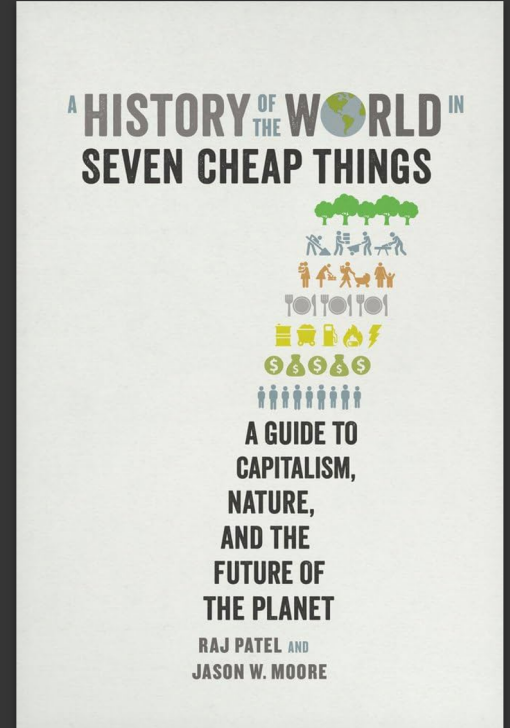
This history illustrates the limitations of technological fixes, absent of corresponding **economic and political changes**, with respect to solving environmental problems.

An aerial photograph of a large dam and reservoir. The dam is a long, straight concrete structure with a series of buttresses. To the right of the dam is a large reservoir with greenish water. The surrounding landscape is arid and brown. The text "What is money?" is overlaid on the left side of the image in a large, bold, sans-serif font. The word "What" is orange, and "is money?" is white.

What is money?

Money facilitates and **compels** action
at a distance.

Money is an **ecological relation**.



The woods and groves are cut down, for there is need of an endless amount of wood for timbers, machines, and the smelting of metals. And when the woods and groves are felled, then are exterminated the beasts and birds [...] When the ores are washed, the water which has been used poisons the brooks and streams, and either destroys the fish or drives them away.



TC Energy just sold its majority ownership stake in the **Coastal GasLink pipeline** to Alberta and South Korea's public sector pension funds, investing millions of individuals' retirement savings into one of Canada's most controversial industrial projects.

Growing opposition to privatisation in Chile follows this trend but has an unexpected twist. The **Ontario Teachers' Pension Plan** (OTPP) is currently the largest investor in Chile's water and sanitation, holding majority shares in three large Chilean water utilities - **Essbio**, **Esval** and **Aguas del Valle** - and with 41% of the sector under its control.

The province's integrity commissioner, J. David Wake, found Steve Clark, Ford's housing minister at the time, violated ethics rules. Clark resigned shortly after the commissioner's report was released.

The auditor general, Bonnie Lysyk, in a separate report, found the developers stood to see their land value increase by \$8.3 billion because of the land swap.



Proposal to build hospital on protected Greenbelt land cancelled

JILL MAHONEY
TORONTO
PUBLISHED OCTOBER 3, 2023
UPDATED OCTOBER 4, 2023



Officials say Southlake Regional Health Centre requires a second hospital on up to 40 hectares of land to relieve overcrowding at its current Newmarket, Ont., facility.
GALIT KODAN/THE GLOBE AND MAIL

...capitalism has driven a wedge between the economic and the political [...] essentially political issues like the disposition of **powers to control production and appropriation, or the allocation of social labour and resources**, have been cut off from the political arena and displaced to a separate 'sphere'



An aerial photograph of a large dam and reservoir in a mountainous region. The reservoir is a deep blue color, contrasting with the brown and grey tones of the surrounding rugged terrain. A small town is visible in the foreground, near the bottom left of the reservoir. The text "How divestment works" is overlaid in white at the bottom of the image.

How divestment works

Source: Reich quoted in *Mau* 2023

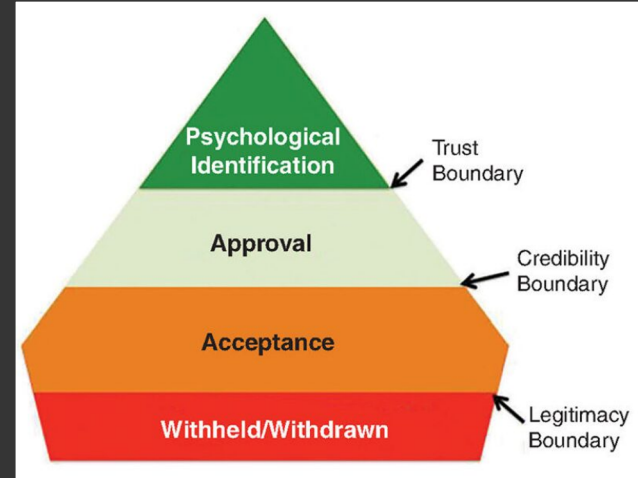
—

Divestment **re-politicizes** the
economic and reveals **ecological**
relations.

Divestment attacks **social license.**

—

Social license is ‘a community’s perceptions of the acceptability of a company and its local operations [...] failure to [gain social license] can lead to **conflict, delays, added costs, or even prohibition of projects**

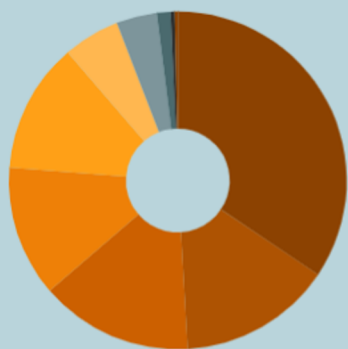




How to campaign

Source: over-view.com

What kinds of institutions are divesting?



- Faith-based Organization — 34%
- Educational Institution — 15%
- Philanthropic Foundation — 15%
- Government — 13%
- Pension fund — 12%
- For Profit Corporation — 5%
- NGO — 4%
- Healthcare Institution — 1%
- Other — 0%
- Cultural Institution — 0%

As of 2019, 1157 organizations worth \$11.51T are committed to fossil fuel divestment.

Only 23 of those organizations are health institutions

Divestment 101



Get inspired

Build a group

Research

Make a demand

Negotiate with the target

Publicly launch the campaign

Divestment 101

CAMPAIGN PLANNING TEMPLATE

Our Issue What is our deeply and widely felt issue? What is our demand to fix the problem?	Targets Who has the power to fix the problem?	Tactics What do we think will move our target? Which tactics fit this situation? What tactics do we start with? [warm] What tactics might we move to if necessary? [hot]
OMA is invested in fossil fuels OMA must divest	OMA CEO OMA president OMA board OMA members	



1. Met as a small group
2. Defined their issue: air quality
3. Gathered signatures on a grievance
4. Conducted a health survey
5. Developed a communication network
6. Formed a grievance committee
7. Published a newsletter
8. Reached out to parents
9. Filed an information request
10. Used the result to formulate specific demands, with deadlines
11. Called a meeting of supporters
12. Pulled a publicity stunt
13. Spoke to the media
14. Walked out of a meeting en masse

TURNING AN ISSUE INTO A CAMPAIGN

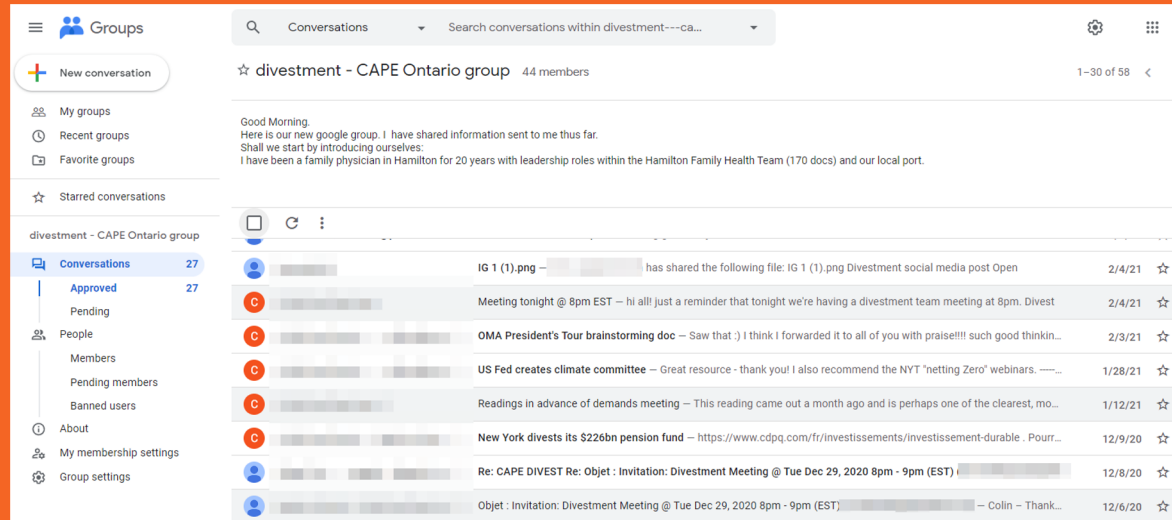


Form a group/do your homework

Feb 2020 - Co-founded CAPE ON divestment interest group focused on the OMA via listserv

Apr 2020 - hosted webinar on divestment for CAPE members to build interest

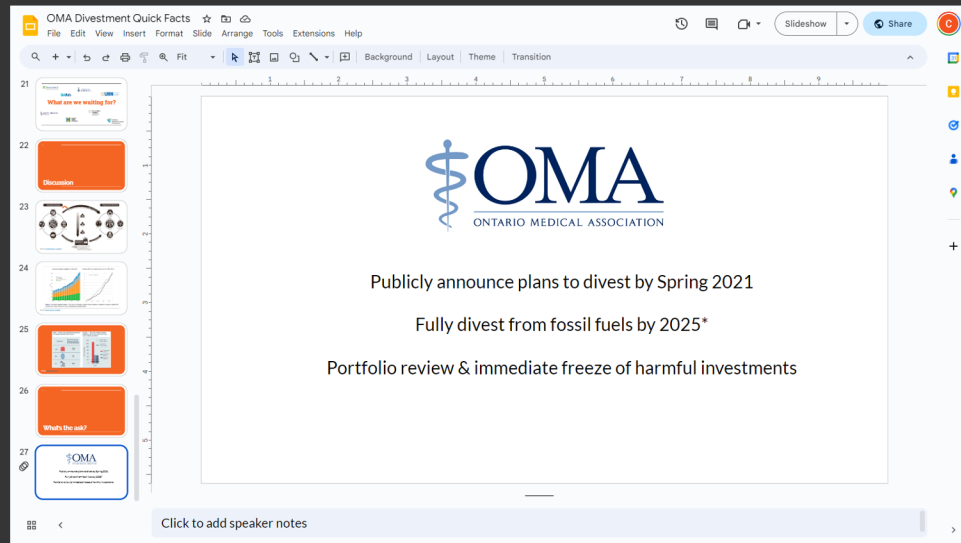
Jan 2021 - attended OMA 'president's tour' to pose questions about divestment



Make a demand/negotiate

Jan 2021 - email to OMA leadership providing information, requesting divestment and a meeting to discuss same

Feb 2021 - Met with OMA leadership regarding divestment



OMA pledges divestment

August 2021

**‘[the] goal is to
completely divest of
fossil fuels and
tobacco by this time
next year’**

Why'd it work?

Committed team - 10+ of us - staff and trainee physicians, junior and senior medical students

No existing policy on the part of the OMA - ignorance rather than opposition

Sympathetic OMA leadership

CMA precedent

Taking action

Start a conversation with a
colleague about divestment -
identify allies

Reach out to your organization to
inquire about their investment
practices

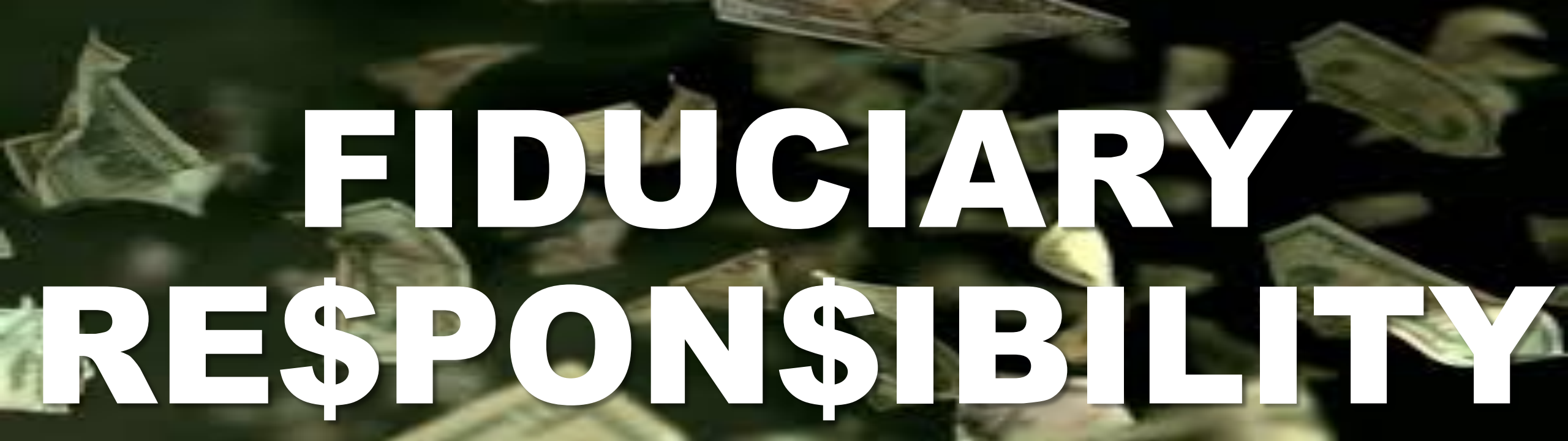
Money has emissions!
... who has the money?



Individual

**Institutional investing
(e.g., hospital, foundations)**

Larger orgs: pension funds



FIDUCIARY RESPONSIBILITY

Value

- Fund returns
- Fees
- Tax

Risk

- Diversification:
 - Market indexing
 - # of unique holdings
 - Global vs regional

FIDUCIARY RE\$PONSIBILITY

Value

- Fund returns
- Fees
- Tax
- ESG

Carbon intensity of fund

Risk

- Diversification:

Market indexing

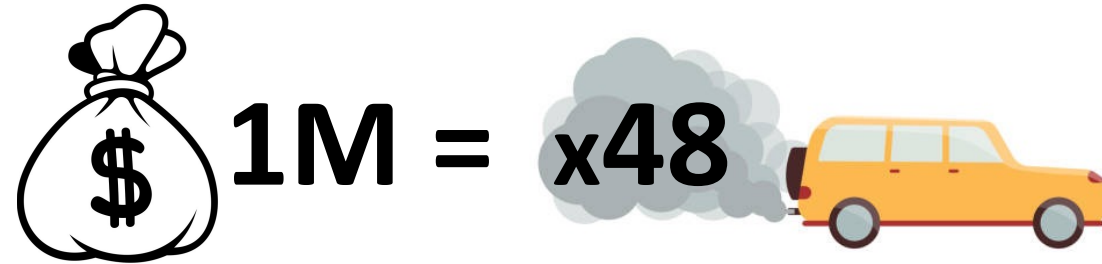
Num. of unique holdings

Global vs regional

How bad is investing money blindly... ... for climate change

Broad market investing

- Carbon intensity= 220 (tCO₂e / \$m sales)



ESG funds with fossil fuel divestment

- 70-80% better carbon savings



If you have \$100k in the bank
= emission of running your car



e.g., \$300M long term
investments
= x14,500 car

Why ESG investing in is important in healthcare

- Healthcare
 - Public sector
 - Charitable funds
- Healthcare contributes 4-5% of national carbon emissions
 - FF divestment might be a *low hanging fruit*
 - “Easy” to switch fund
 - Relative to changing clinical practice
- If hospitals are greening, foundations might mirror these shared values
 - Net-zero vision



Where is the Money?

The role of healthcare pensions

October 19, 2023

shift ACTION FOR
PENSION WEALTH
AND PLANET HEALTH

What is a Pension?

\$2 trillion

- Your deferred wages
- Invested over time to generate returns
- Long-term horizons

Why the Climate Crisis Matters to Pensions



Source: NASA's Marshall Space Flight Center. New York City (NASA, International Space Station, 05/05/14). <https://flic.kr/p/nDg5r4>

Systemic Risk



“UPP’s ability to realize adequate investment returns and provide retirement benefits depends on a stable climate.”

A Climate-Aligned Pension Fund



2022 CANADIAN PENSION CLIMATE REPORT CARD

January 2023



**Paris-
Aligned
Target**

**Near-Term
Targets**

**Climate
Urgency**

**Climate
Integration**

**Climate
Engagement**

**Fossil Fuel
Exclusions**

A Paris-Aligned Climate Plan Includes Divestment

“ There is no room for new fossil fuel projects in Paris-compatible scenarios, according to the International Energy Agency. ”

AkademikerPension Chief Investment Officer Anders Schelde was announcing the US\$20 billion pension fund's divestment of the last remaining upstream fossil fuel company in its portfolio.

Can They Do It?

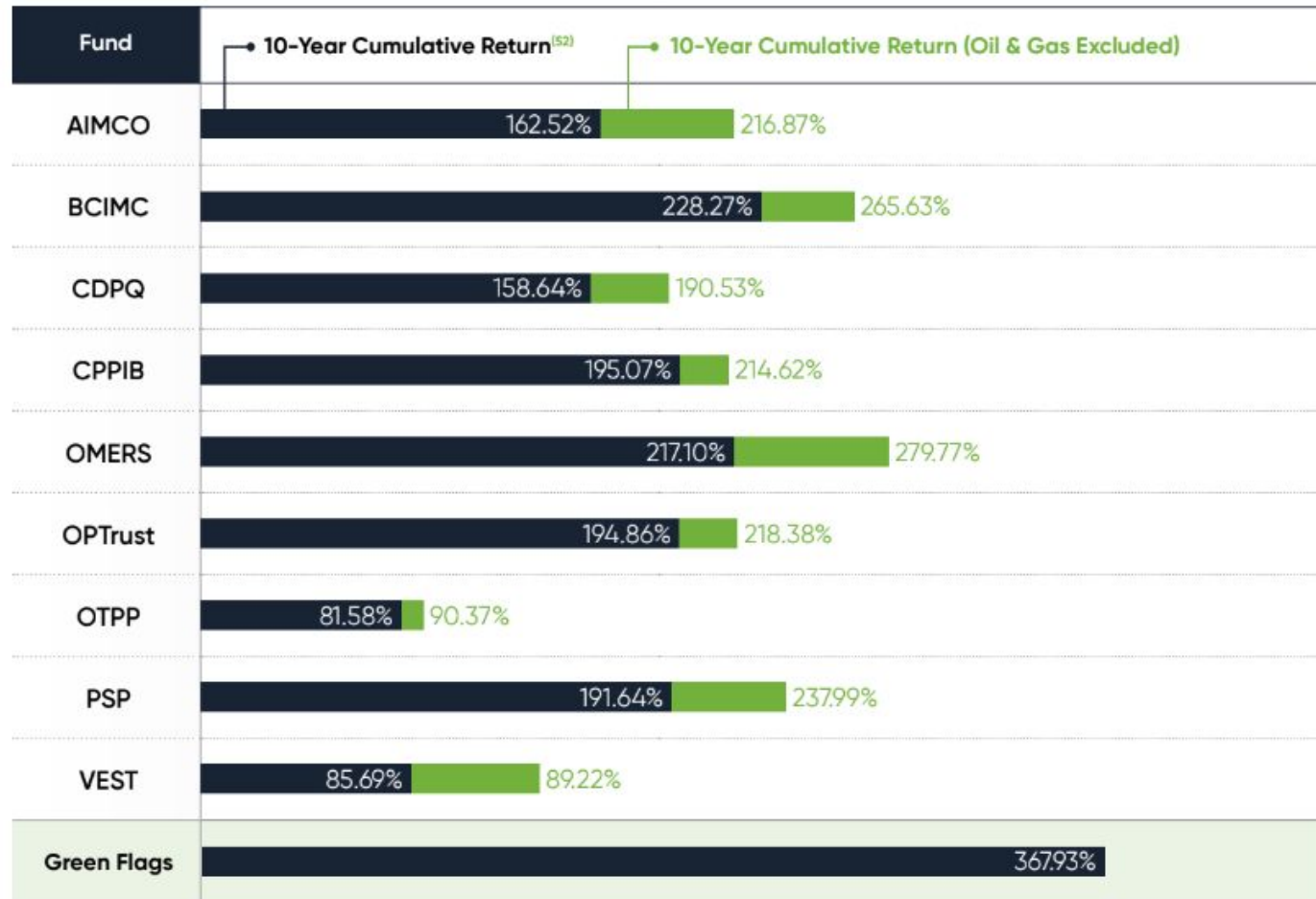


Fracking landscape in Wyoming.
Credit: Jonah Field

Five
Canadian public
pension funds
have placed
partial exclusions
on some kinds of
fossil fuel
investments.

Does it Make Financial Sense?

Table 13 – Back test



Source: Canadian Pensions Dashboard for Responsible Investing, 2nd Edition.

<https://www.corporateknights.com/wp-content/uploads/2023/03/Canadian-Pensions-Dashboard-for-Responsible-Investing-2nd-Edition.pdf>

What are Healthcare Professionals Saying?



RNAO
@RNAO



 Nurses are calling on [@HOOPPnow](#) to fund a just and sustainable future, not climate disruption!

 Read our letter: [RNAO.ca/media/6603/dow...](https://rnao.ca/media/6603/dow...)

 All Ontario health-care professionals — sign this open letter:
act.newmode.net/action/shift-a...

[@DorisGrinspun](#) [@ClaudetteHollow](#) [@LhamoDolkar2023](#)

Source: <https://twitter.com/RNAO/status/1707836726687801449>

Should Pension Funds “Engage” Instead?

PFZW

“PFZW’s [Dutch healthcare pension] decision to exit fossil fuel companies that were not meaningfully pursuing a net zero transition followed a lengthy period of engagement with the sector, including through the collaborative engagement initiative Climate Action 100+.”

AkademikerPension

“After several years, where we together with other investors have tried to get these companies to change their climate course, we have to realize that the top management in the oil and gas sector simply refuse to do so in a manner consistent with the goals of the Paris agreement.”

Church of England Pensions Board

There is a significant misalignment between the long term interests of our pension fund and continued investment in companies seeking short term profit maximisation at the expense of the ambition needed to achieve the goals of the Paris Agreement.”

Pension Funds Answer to their Beneficiaries

“

I have just joined HOOPP and I am so excited to be contributing towards a collective good that ensures people can age with dignity. But it's devastating to hear these investments are actually destroying our chance at a liveable future.

**ELIZABETH HOULDING,
REGISTERED PHYSIOTHERAPIST**



After years of pressure from beneficiaries, the Healthcare of Ontario Pension Plan released its first climate plan, but stopped short of divestment.

Thank you

shiftaction.ca

Email: info@shiftaction.ca

Twitter: @ActionShift

LinkedIn: /company/shiftaction

Facebook: @ShiftAction

Instagram: @shiftyourpension