Climate Action: Public Health Advocacy

Dr. Vishnu Laalitha Surapaneni, MD,MPH
Assistant Professor, General Internal Medicine
Email: vishnulaalitha@gmail.com Twitter: @LaaliMD

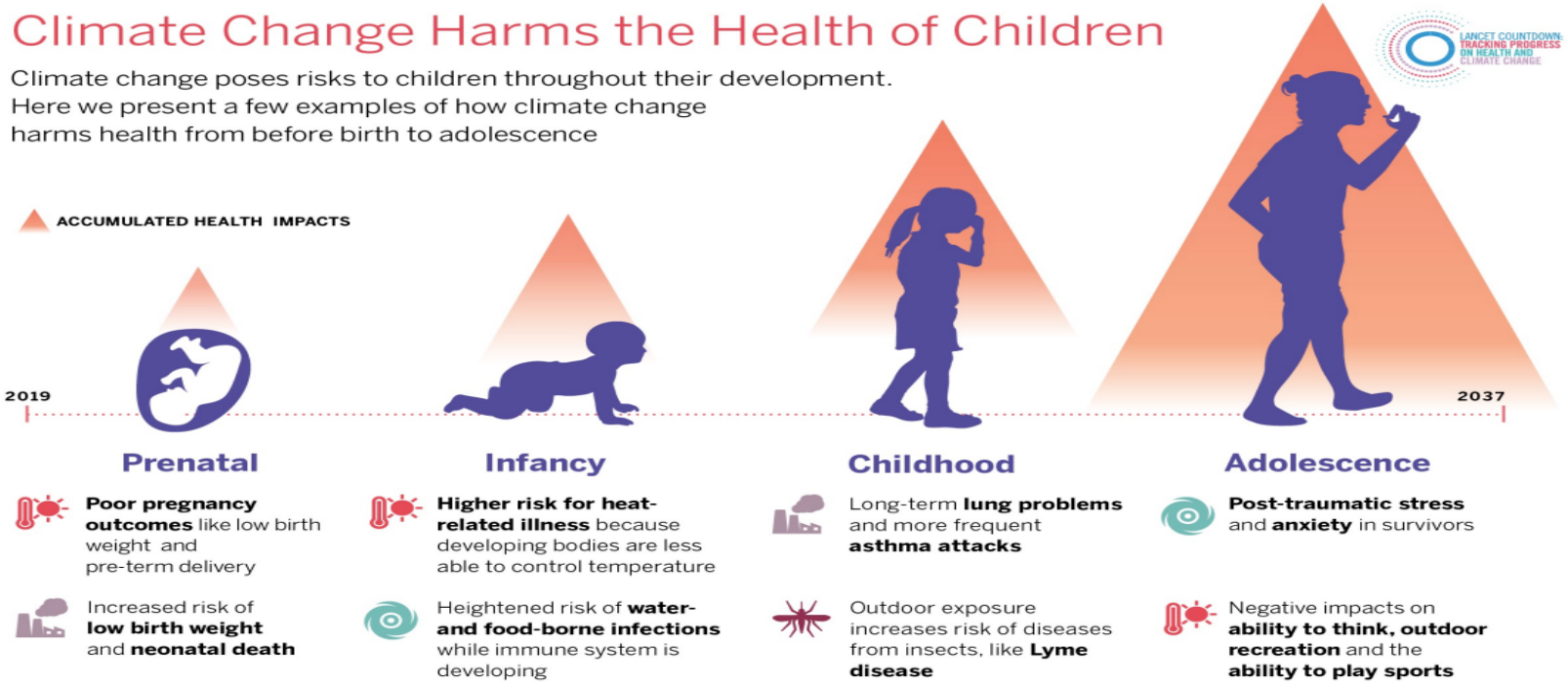
Disclosure Information

Disclosure of Relevant Financial Relationships

I have no financial relationships to disclose

LANCET COUNTDOWN: TRACKING PROGRESS ON HEALTH AND CLIMATE CHANGE

GENERATIONAL JUSTICE



Source: Lancet Countdown 2019 US Policy Brief

Public Health Advocacy

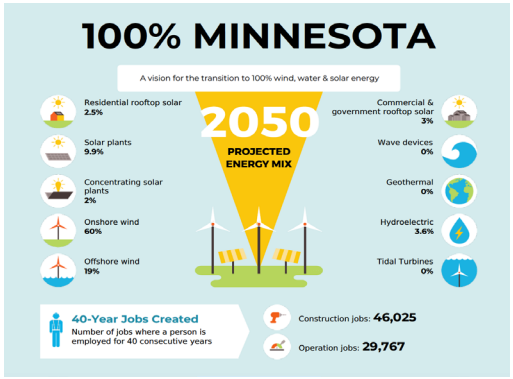
Source: Frieden T.Am J Public Health; 2010; 100 (4) Image source: Live Healthy Douglas

U.S. Call to Action:
Climate, Health and Equity Policy Action Agenda

Climate Issues in Minnesota

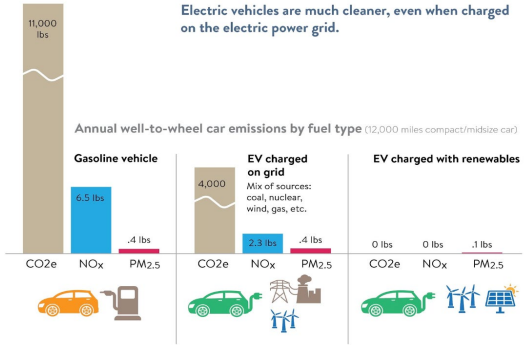
MPR News Graphic, William Lager

Transition rapidly away from the use of Fossil Fuels



Solutions Project

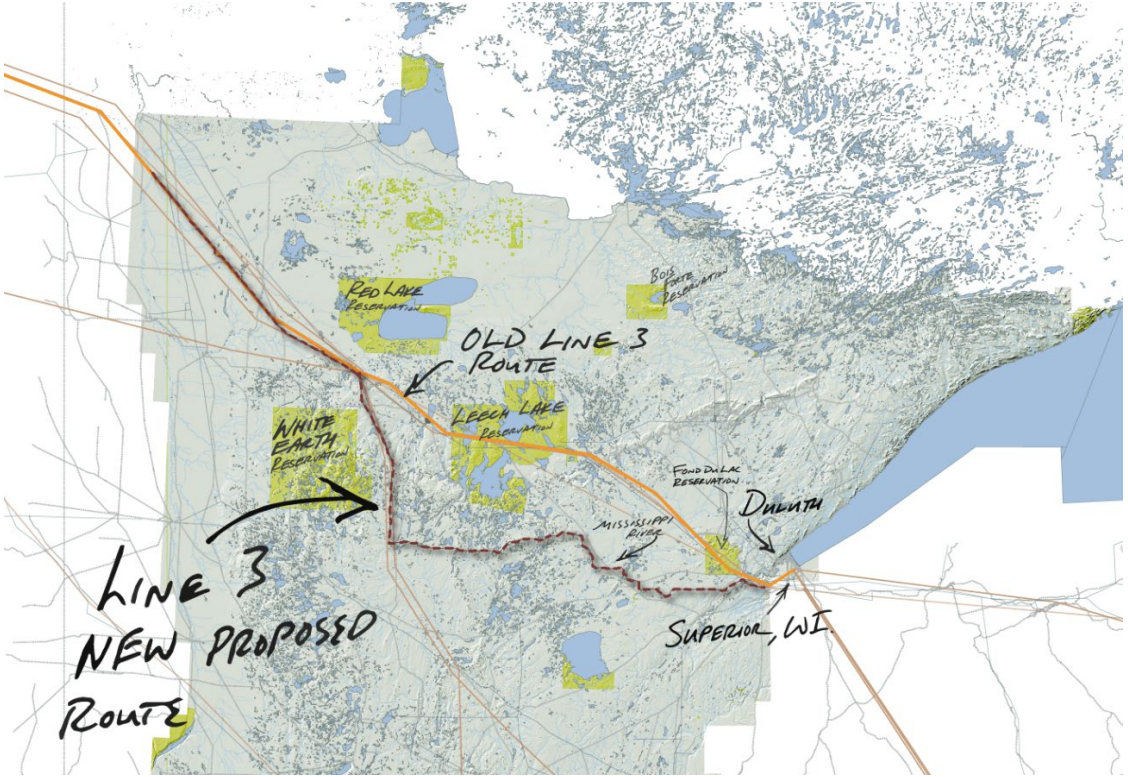
Transition to renewable energy



MPCA, Air We Breathe, 2019

Active transport + Zero-Carbon Transport

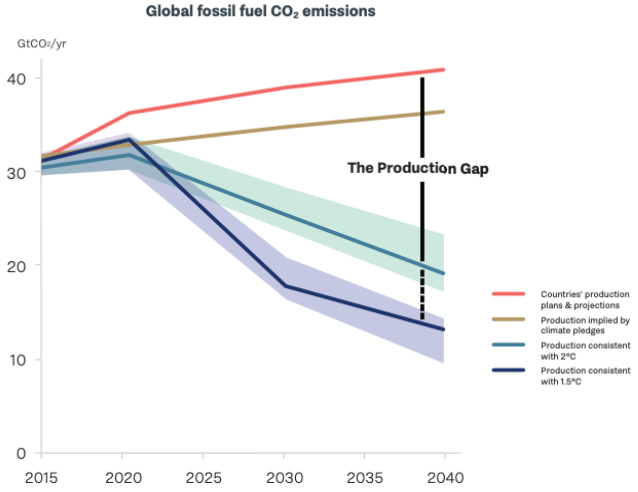
LINE 3



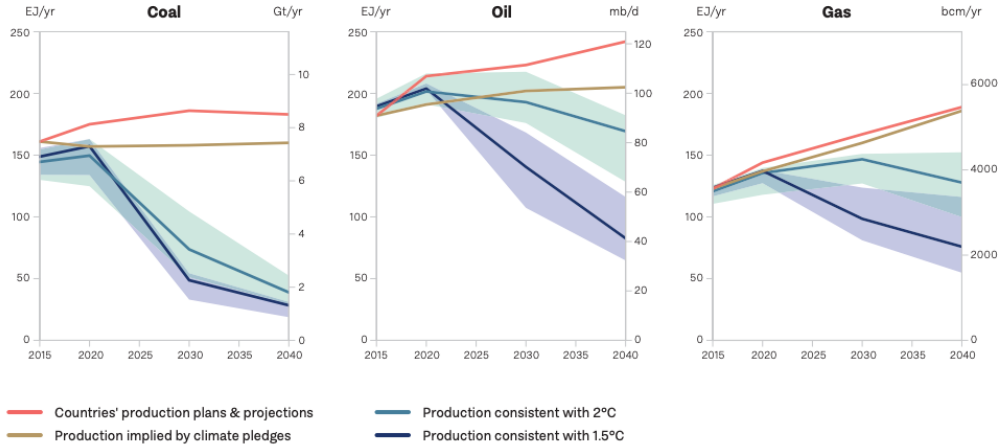
Source:: Enbridge Energy's proposed Line 3 pipeline, William Lager | MPR News Graphic

KEEP IT IN THE GROUND

The fossil fuel production gap — the difference between national production plans and low-carbon pathways (1.5°C and 2°C), as expressed in fossil fuel carbon dioxide (CO_2) emissions — widens between 2015 and 2040.

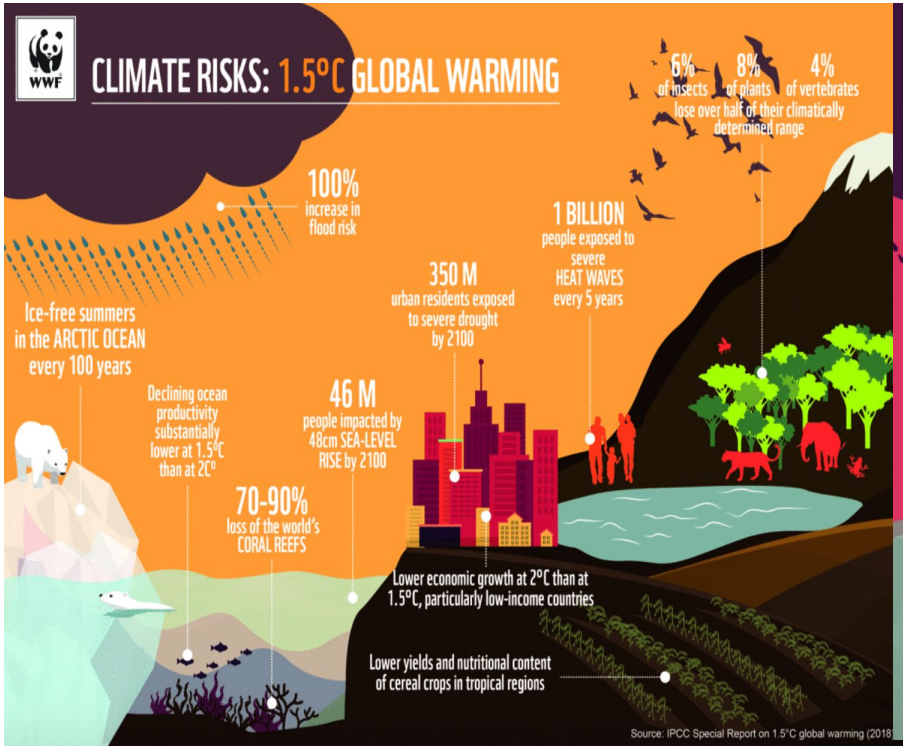


The production gap is widest for coal but grows rapidly for oil and gas. By 2040 the production gap, in energy terms, is as large for oil as it is for coal. Physical units are displayed as secondary axes: billion tonnes per year for coal, million barrels per day for oil, and billion cubic meters per year for gas.



Source: Production Gap Report 2019, Executive Summary

Every Degree Matters



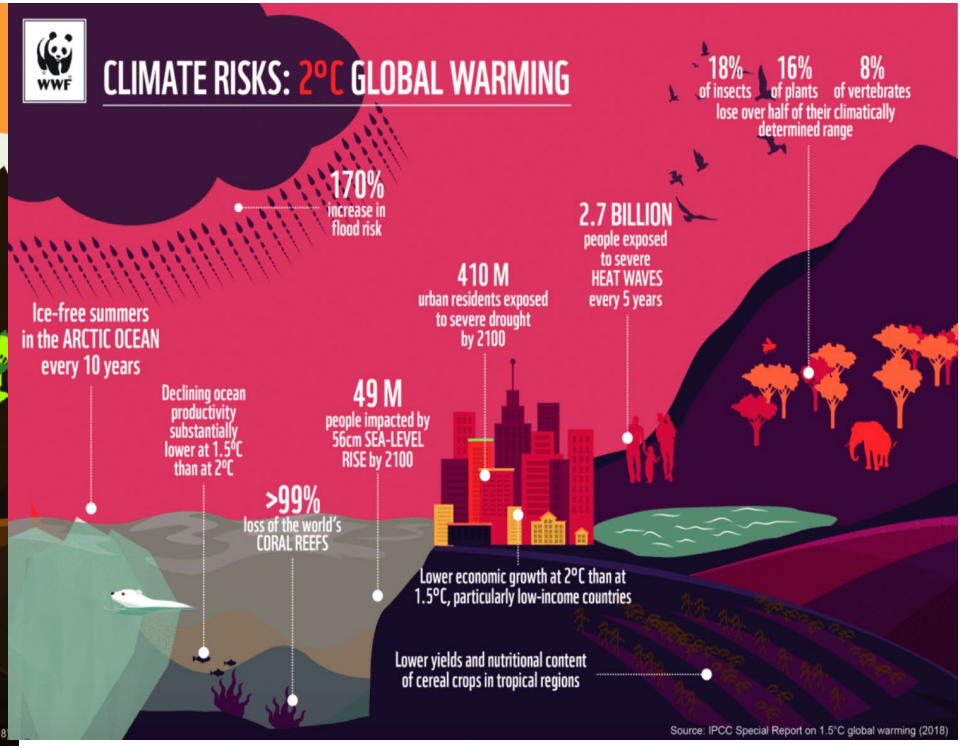
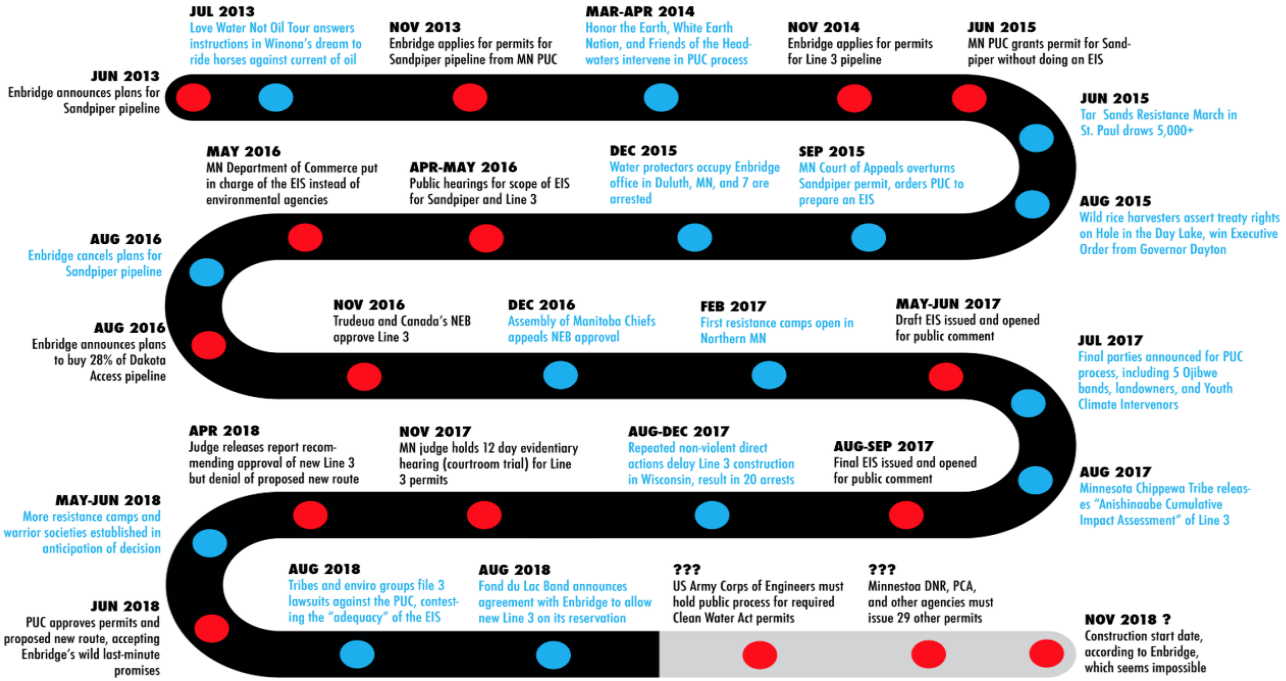


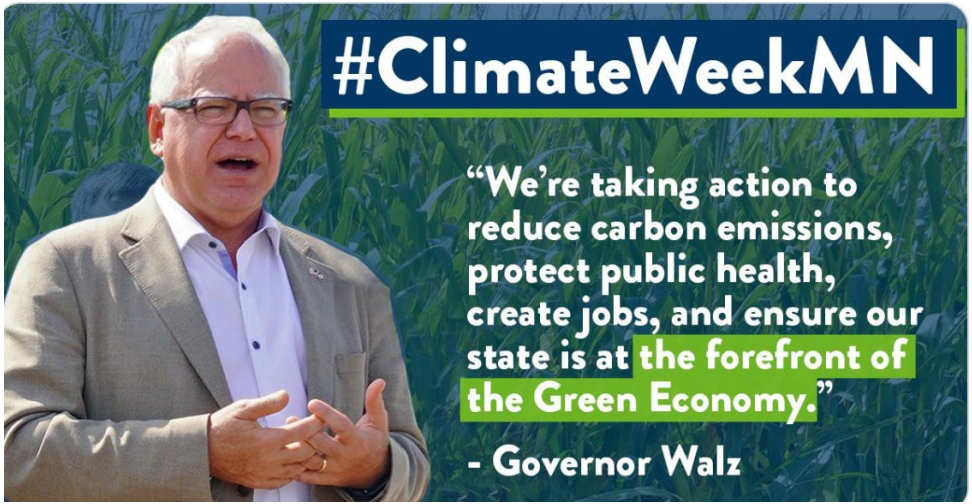
Image Source: Carbon Credentials/ Content Source: IPCC Special rEPORT

LINE 3 TIMELINE



Source: StopLine3.Org

What can you do?



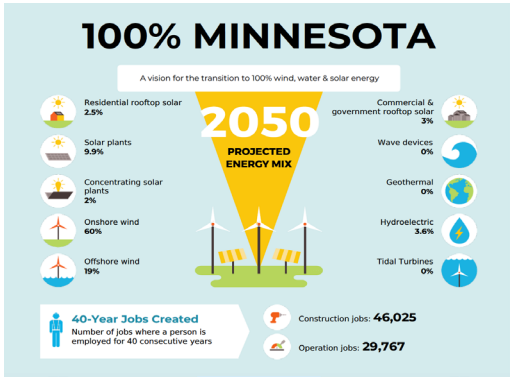
Contact: https://mn.gov/governor/contact/
Twitter: @GovTimWalz & @LtGovFlanagan

Contact: Office phone: 651-757-2014
Email: laura.bishop@state.mn.us
Twitter: @lbishopw (personal) and @MnPCA (general)

Climate Issues in Minnesota

MPR News Graphic, William Lager

Transition rapidly away from the use of Fossil Fuels



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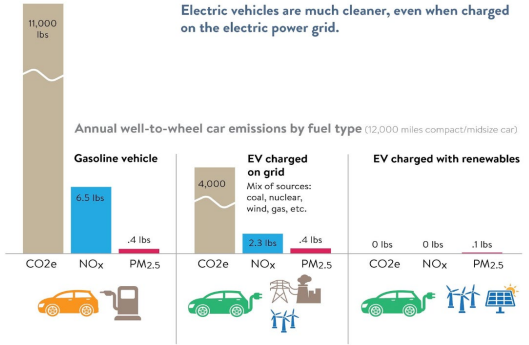


MPCA, Air We Breathe, 2019

Active transport + Zero-Carbon Transport

XCEL IRP- New Natural Gas Plant

Source: Natural gas plant, Vineyard, Utah, Mscalora /Wikimedia Creative Commons License, Sept 2019

The Process

Source: Richard Tsong Taatarii, Star Tribune, Sept 2018

WHAT CAN YOU DO?

The PUC is accepting comments

In writing by a date TBA, but at least until January 8th

By email: consumer.puc@state.mn.us

By mail: To Minnesota Public Utilities Commission, 121 7th Place East, Suite 350, St. Paul, MN 55101-2147

In written comments, make sure to reference Docket No. 19-368, and please note that, if you include personally identifying information in your comments, that will become public.

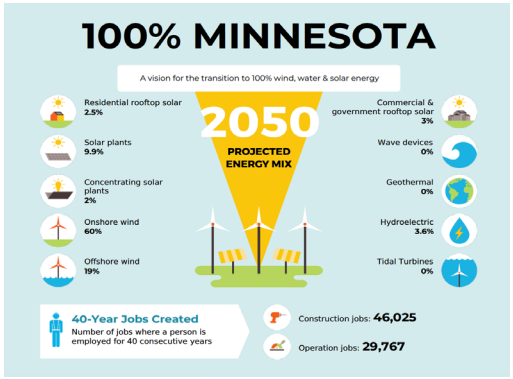
Resource Curse

Source: Patrick T.Fallon/Bloomberg , April 2019

WHAT IS THE PLAN FOR THE DAY?

MPR News Graphic, William Lager

Transition rapidly away from the use of Fossil Fuels



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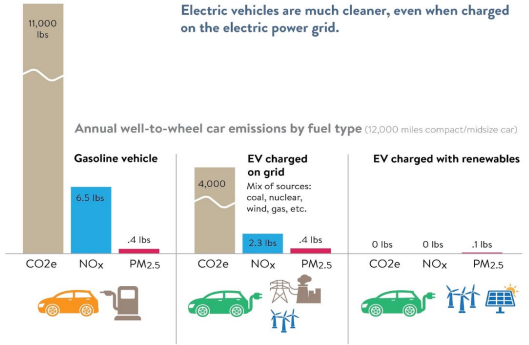


MPCA, Air We Breathe, 2019

Active transport + Zero-Carbon Transport

Clean Cars MN

Minnesota's #1 source of greenhouse gases is transportation.

Minnesotans will breathe easier.

Minnesotans want more options for cleaner vehicles.

Source: MPCA, Why Clean Cars MN

What can you do?

Email your comments in support of clean air to
Sheena.denny@state.mn.us

DECEMBER 6th Deadline

LETTER TEMPLATE

- **Paragraph 1: Who are you?**

Eg: I'm an doctor.

- **Paragraph 2: Why do you care?** Personal Story highlighted by facts

Eg: I take care of patients with heat stroke. Heat related illnesses are on the rise.

- **Paragraph 3: What's your ask?**

Eg: Please deny the 401 water permits to Line 3

Eg: Please deny the proposed Becker Natural Gas plant in Xcel's IRP

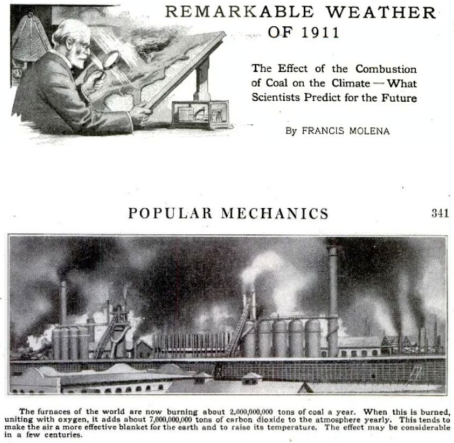
Eg: I support the Clean Car Rule Implementation

THINK- PLAN- SHARE

- **THINK** Pick an action
- **PLAN** Mark a time in your calendar- personal deadline
- **PLAN** Who else you will motivate to take action
- **SHARE** **Hold yourself accountable**→Text someone now/ Post on social media


UMN CHAPTER
SIT-IN
DEMAND PRESIDENT JOAN GABEL AND THE UNIVERSITY TO DIVEST FROM FOSSIL FUELS AND ENACT GREEN POLICIES
FRIDAY, DECEMBER 6
12:00-2:00
12:30
MARCH TO MORRILL HALL
RIVERBEND PLAZA
BEHIND STUDENT UNION
MN STRIKES BACK
UMN STRIKES BACK
UMNCLIMATESTRIKE
UMNCLIMATESTRIKE

Popular Mechanics, 1912



REMARKABLE WEATHER OF 1911

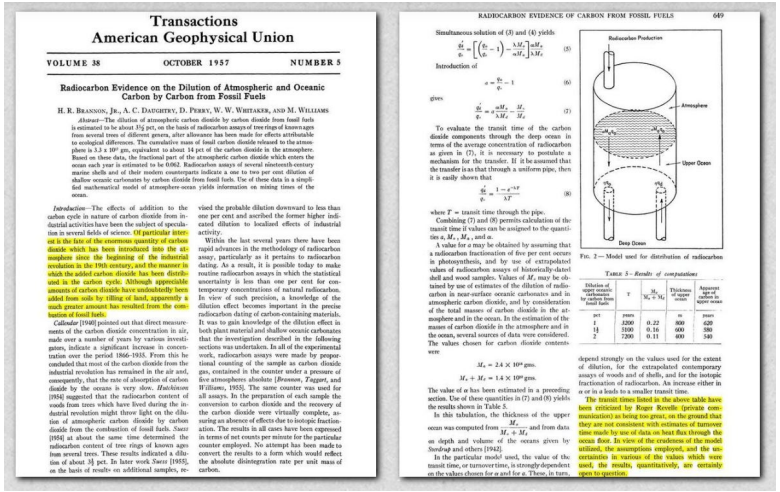
The Effect of the Combustion of Coal on the Climate — What Scientists Predict for the Future

By FRANCIS MOLENA

POPULAR MECHANICS 341

The furnaces of the world are now burning about 2,000,000,000 tons of coal a year. When this is burned, uniting with oxygen, it adds about 7,000,000,000 tons of carbon dioxide to the atmosphere yearly. This tends to make the air a more effective blanket for the earth and to raise its temperature. The effect may be considerable in a few centuries.

Brannon Report, 1957



Transactions
American Geophysical Union

VOLUME 38 OCTOBER 1957 NUMBER 5

Radiocarbon Evidence on the Dilution of Atmospheric and Oceanic Carbon by Carbon from Fossil Fuels

H. R. BRANNON, JR., A. C. DAUGHERTY, D. PERRY, W. W. WHITAKER, AND M. WILLIAMS

RADIOCARBON EVIDENCE OF CARBON FROM FOSSIL FUELS 649

API SRI Report, 1968

American Petroleum Institute

Notice from API President, 1965

"The substance of the report is that there is still time to save the world's peoples from the catastrophic consequences of pollution, **but time is running out**.

One of the most important predictions of the report is that carbon dioxide is being added to the earth's atmosphere by the burning of coal, oil, and natural gas at such a rate that by the year 2000 the heat balance will be so modified as possibly to cause **marked changes in climate** beyond local or even national efforts."

- API President Frank Ikard, commenting on report of U.S. President's Science Advisory Committee at the API Annual Meeting, 1965

ExxonMobil ConocoPhillips bp Chevron

James Hansen Testimony, 1988

1988: FORK IN THE ROAD

- Scientist James Hansen testifies to Congress
- Five bipartisan climate change bills in Congress
- VP George Bush: *I'll tackle the Greenhouse Effect with the White House Effect*
- IPCC formed
- **Fossil fuel companies organize disinformation campaigns**

Source: Images 3 & 4 courtesy of Vic Sher, Sher Elding LLP, Presentation titled Climate Change Damages Litigation by Public Agencies

Global Carbon Emissions

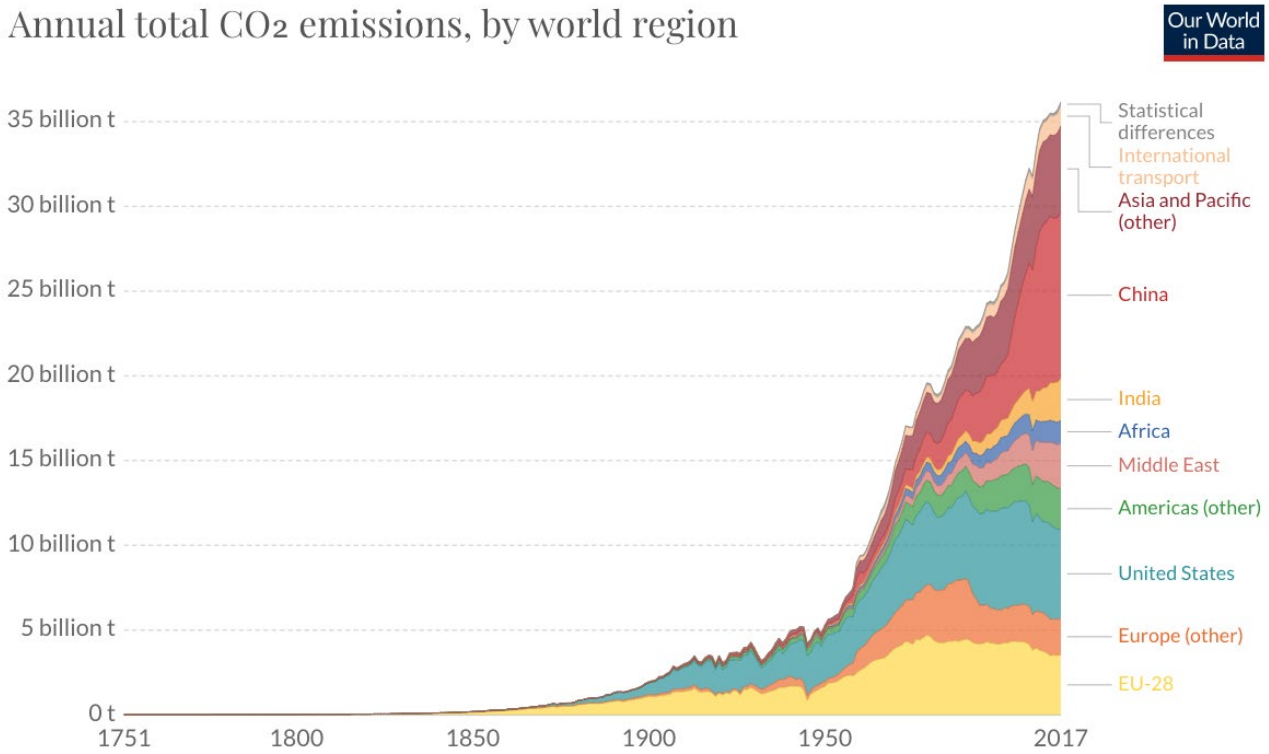


Image Source: Our World In Data, Data Source: Le Quéré et al. (2018). Global Carbon Project; Carbon Dioxide Information Analysis Centre (CDIAC)

Who is telling your story?

UNIVERSITY OF MINNESOTA

Driven to Discover®

Crookston Duluth Morris Rochester Twin Cities