

Global Warming and CO₂: Canada

Global Warming is not a crisis, nor is it caused by CO₂ emissions.

- **Canada's climate has not materially changed over the last 120 years..**
- **The global impact of Canada going "Carbon Neutral" has a negligible global impact and is very costly.**
- **Canada has 594.7 billion trees. Only 25.7 billion trees are needed to capture all of Canada's CO₂ emissions. Canada's lakes absorb even more CO₂ than these trees. Canada does not contribute globally to net global CO₂ emissions.**
- **Spending \$multi-billions on Canada going "Carbon Neutral" doesn't add up.**

[It Is Easy Going Green](#) [The value of added CO₂](#)

Climate Crisis Scam <https://youtu.be/aT2SvIAkE5s>; Gregory Wrihstone

Cause of climate change <https://www.youtube.com/embed/1Mj16tiUyl4>

Joe Rogan interview with Dr. William Happer and Dr Richard Lindzen https://www.youtube.com/watch?v=Zt32chvO_iY

short interview clips <https://youtu.be/6bJsWeoNjmg> <https://youtu.be/zJng54iRhCM> <https://youtu.be/mdIGiBEBaQA>

short interview clips <https://youtu.be/fPWU23gzPSO> <https://youtu.be/uV61bIEEbzM> <https://youtu.be/lRWQ32FGX8o>

Climate Change What the Data Shows <https://youtu.be/p7gyAkrLg64?si=eoFCqjcE2klX31uK>

Global Warming and CO₂

Introduction

Given my background as a professional geologist and geophysicist who spent my career studying climate change implications, I was surprised by claims that mankind was causing a climate change crisis. I am aware of prior ice ages, climate change and changing sea levels that occurred well before mankind arrived. I am also aware that CO₂ is critical for plant life. I also listened to Jordan Peterson talk on speaking the truth. [Dr. Jordan Peterson: SPEAK THE TRUTH!](#)

This drove me to research this subject in much more detail.

"The ignorant person affirms, the scientist doubts, the wise person reflects." — Aristotle

I offer you this material, along with connections to more extensive reports for your consideration.

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Video presentations: [\(16379\) Jersey Climate Forum - YouTube](#)

CO₂ Coalition interview with Graeme Phipps [Feed | CO₂ Coalition Discussion Group](#)

Global Warming and CO₂

Introduction

This presentation shows the results of my research into this subject, obtained from 43 books, 494 articles, 231 videos and 74 well-respected and competent scientists and professionals, all listed at the end of the presentation. The results of my ongoing analysis are contrary to what is being said in mainstream media and have important implications for future Government actions.

Please consider this quote from Tolstoy's 1894 treatise "The Kingdom of God is Within You" where he states: **"The most difficult subjects can be explained to the most slow-witted man if he has not formed any idea of them already, but the simplest thing cannot be made clear to the most intelligent man if he is firmly persuaded that he knows already, without a shadow of a doubt, what is laid before him".**

This presentation summarises findings relevant to Canada. For the complete presentation:

<https://www.dropbox.com/scl/fi/tnssopvkv59rmq1v5moe3/Climate-Change-Complete-version.pdf?rlkey=48uov71zwg2luoiojpzjwqftm&st=ofdeqf6f&dl=0;>

Also, see the weekly science-based technical review of Climate Change issues (www.sepp.org).

[Bing Videos](#); Lord Monckton Net Zero Emissions – The Costliest Error of Physics and Economics in History

Climate The Movie <https://www.youtube.com/watch?v=A24fWmNA6IM>

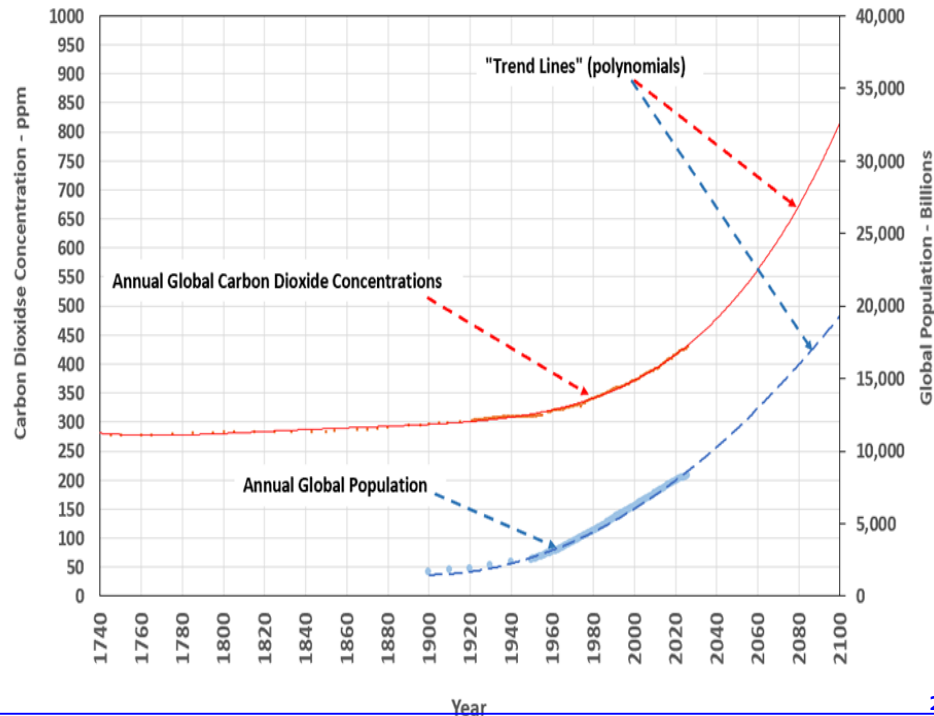
https://www.climateskeptic.org/p/the-climate-skeptic-podcast-episode-722?r=1jqxnz&utm_campaign=post;

Global Warming and CO₂

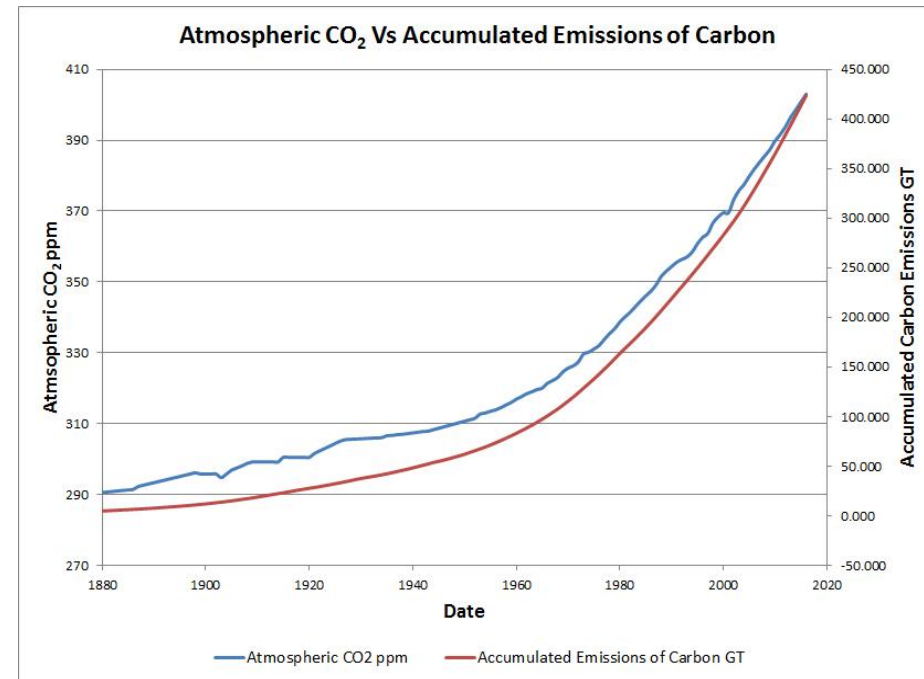
Is Global Warming a Man-Made Crisis Caused by Increased CO₂ Emissions?

A clear relationship exists between global population growth and atmospheric CO₂ levels, reflecting increased human activity. However, the temperature response does not display a corresponding relationship. Nor is the claim of a recent Climate Crisis unique to our present time.

Carbon Dioxide Concentrations and Population Growth



Atmospheric CO₂ and Accumulated CO₂



2024 Annual GWPF Lecture - Judith Curry - Climate Uncertainty and Risk ...

Carbon dioxide concentration versus global population growth using data for periods starting at 1740 (CO₂) and 1900 (population), data for both to 2023. Graphs extrapolated to 2100. Reference Ian McNaughton

Global Warming and CO₂

Is Global Warming a Man-Made Crisis Caused by Increased CO₂ Emissions?

The claim that extreme weather, wildfires, droughts, and heat are spiraling out of control does not hold up. Isolated disasters still happen. That is not the same as a planetary breakdown. Meanwhile, the measures that matter for human welfare have moved in a positive direction. Life expectancy has risen. Agriculture has become more productive. The planet has greened as atmospheric CO₂ has increased, because CO₂ is plant food, not poison.

Humanity has become far more capable of adapting to environmental challenges. Wealth, technology, and reliable energy have reduced vulnerability. Policies that starve developing countries of affordable fossil fuels do not protect the poor but rather expose them to injury, poor health, and early death. Look beyond the narrative. Examine the data. Discover where the evidence leads.

[Beyond the Narrative and Following the Data with Vijay Jayaraj | Climate Debrief](#)

Global Warming and CO₂

Introduction

Key Findings

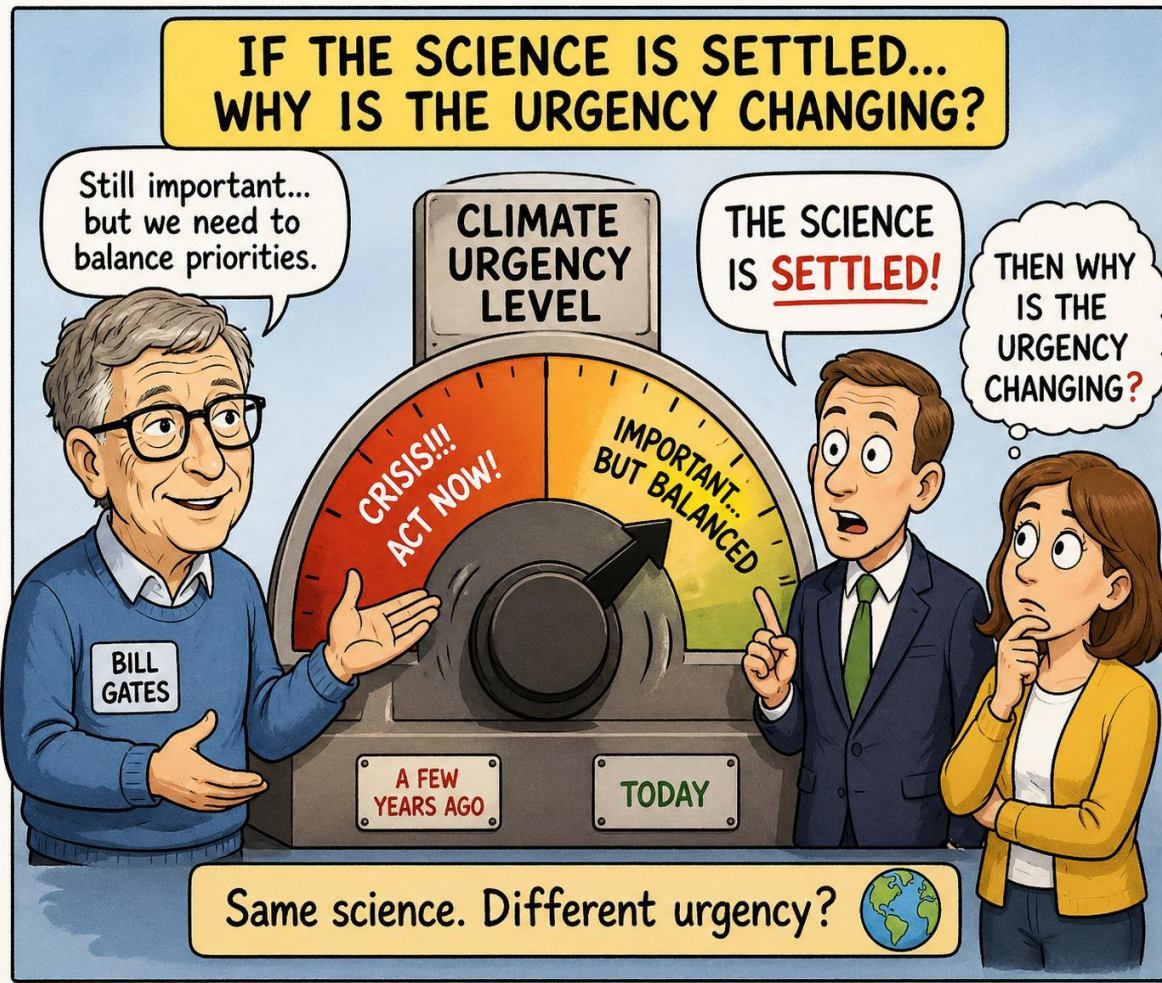
- 1) Climate change is a very complex system, with CO₂ as a greenhouse gas playing a very minor and not dangerous role
- 2) Increased CO₂ in the atmosphere is beneficial and not damaging to the world. Carbon dioxide has two relevant properties: as a creator of food and oxygen, and as a greenhouse gas
 - i) Added CO₂ increases plant growth and is essential for plant life. The world is greening and plant and crop yields have significantly improved
 - ii) Added CO₂ is not causing increased extreme and dangerous weather events, which are not increasing compared to historic occurrences
 - iii) Added CO₂ has reached a near-saturation level. The CO₂ Greenhouse temperature impact changes logarithmically, requiring continuously doubling the amount of added CO₂ to obtain the same prior temperature effect and future added CO₂ makes a minimal temperature impact
 - iv) Added CO₂ does not bring about the proposed runaway temperatures. Historically, the globe experienced over 10 times the present CO₂ level without associated runaway temperatures

Global Warming and CO₂

Quotes from reputable, knowledgeable individuals

- 1} "Global warming is part of a natural cycle and there's nothing we can actually do to stop these cycles. The world is now facing spending a vast amount of money in tax to try and solve a problem that doesn't actually exist." Dr David Bellamy, Jan 18, 1933 – Dec 11, 2019, was an English academic, botanist, television presenter, author and prominent campaigner in the UK. pic.x.com/WU1ZHimrr8
- 2) "There is no Climate Catastrophe.. We are making ourselves poorer, less secure, dependent on our enemies to achieve nothing except feeling good about how virtuous we are." Konstantin V. Kisin is a British political commentator, author and co-host with Francis Foster of the *Triggernometry* podcast. [The Truth About 'Climate Science' | Konstantin Kisin](#)
- 3) "The real environmental emergency isn't the modest warming that has helped humans thrive. It's land degradation, poisoned water and other forms of pollution that are burying the Global South alive. We've been fighting the wrong environmental war." Dr Vijay Jayaraj is a Science and Research Associate at the CO₂ Coalition with postgraduate degree in Energy Management Robert Gordon University, UK, an MS in Environmental Sciences University of East Anglia, UK, a BS in Engineering Anna University in India [Real Environmental Crisis Is Not Climate Change - CO₂ Coalition](#)
- 4) "Two prevalent myths are damaging our economy and hurting the less fortunate: 1) that greenhouse gases, chiefly carbon dioxide, are causing dangerous global warming; and 2) that wind and solar can easily replace fossil fuels, nuclear, and hydro in electricity generation. Both are false yet widely accepted. " Thomas S. Drolet has had a 57-year international career in many phases of Energy, including Nuclear Power, Fusion Power, Nuclear Fuel Supply, major projects in Coal, Natural Gas, Distributed Generation, Oil and other Renewables (Geothermal, Hydroelectric, Solar and Biomass).
- 5)' World Climate Declaration: THERE IS NO CLIMATE EMMERGENCY signed by 2,000+ scientists

Global Warming and CO₂



[Cooling Doomsday Rhetoric Affords Rational View of Climate | Newsmax.com](https://sealevel.info/Unsettled-Climate) Larry Bell

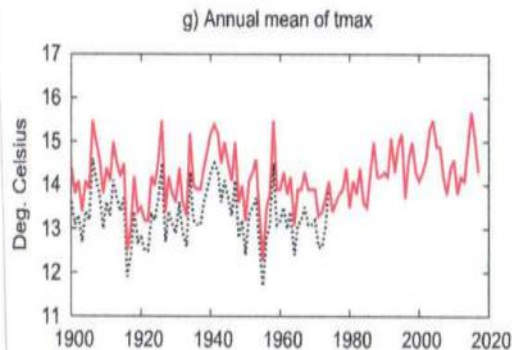
<https://sealevel.info/Unsettled-Climate> Changes Real Story-NewsMax and the CO₂ Coalition-2026-with ads.mp4

What is Canada's climate situation and the threat of a "Climate Emergency"?

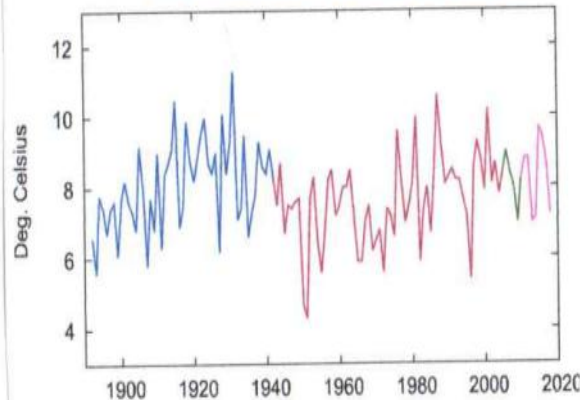
Canada's mean daily maximum temperatures since recording began show only a 1 to 2 °C mean change over the last 120 years; hot summer days and cold winter nights change of over 6°C

- Canada's annual average air temperatures taken from Victoria BC, North Battleford, Saskatchewan and Moncton, New Brunswick sites since 1900 show about a 1 to 2 Celsius increase over the last 120 years.
- At these rates, the impact on Canadian temperature over the next 100 years would be about 1 ° C.
- Canadian daily temperatures in major populated areas have ranged from winter night lows of -30C to summer day highs of +30C+ without serious issues
- A change of 1 °C against daily seasonal ranges of up to 60 °C is not a "Climate Emergency"!
- **Canada's Annual Mean of the Daily Maximum Temperatures 1900 to 2018**

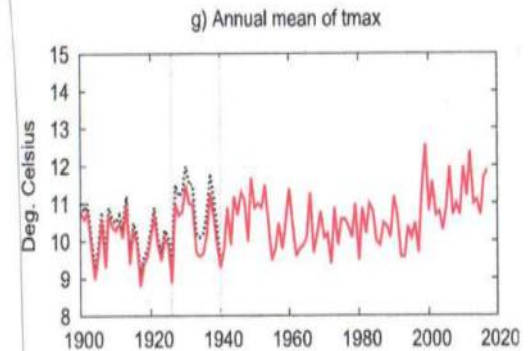
Victoria, British Columbia



North Battleford, Saskatchewan



Moncton, New Brunswick



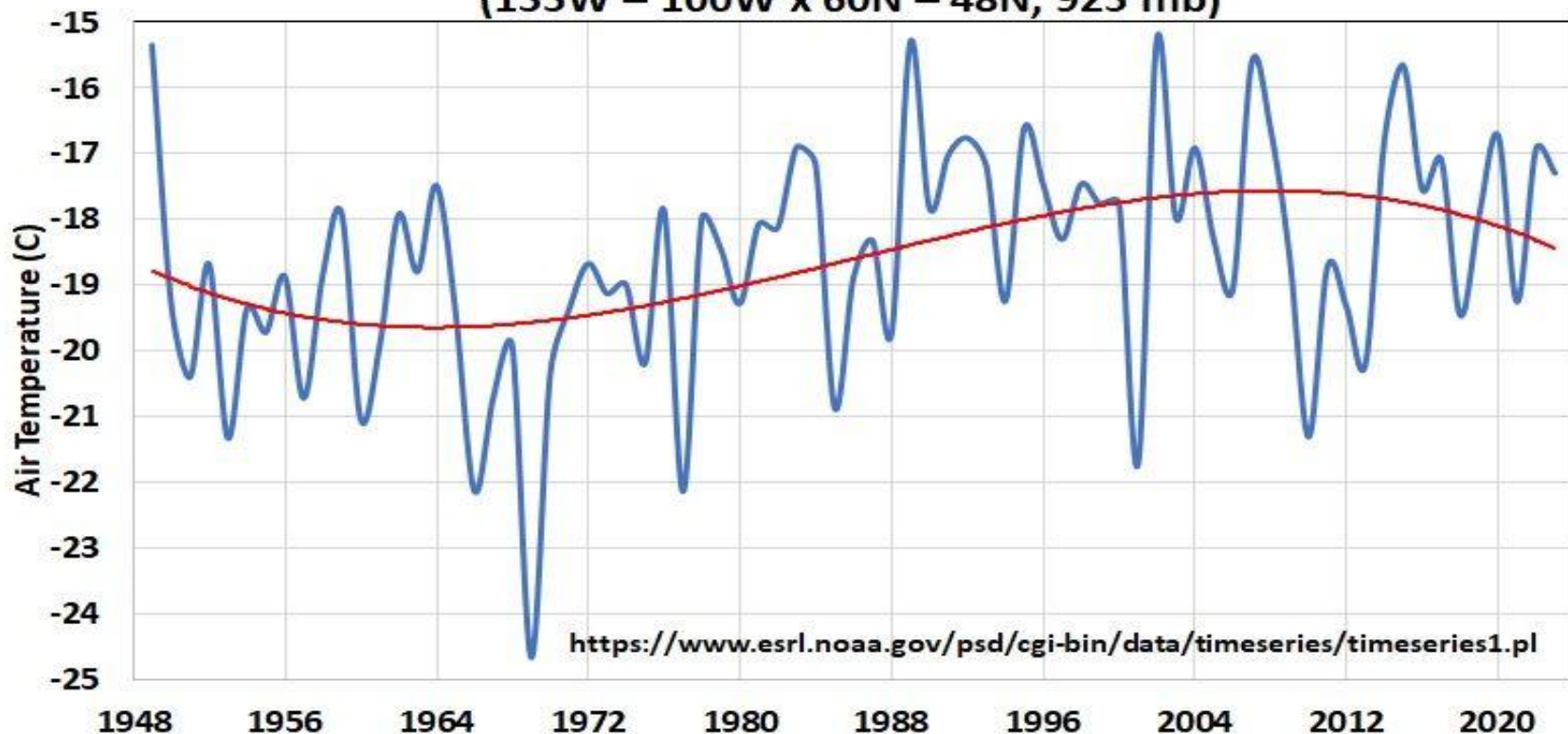
What is Canada's climate situation and the threat of a "Climate Emergency"?

Western Canadian Temperatures Show Cyclic Variations Unrelated to CO₂ Increases

Radiosonde (aka weather balloon) data show that the lower tropospheric air temperature over Western Canada continues to exhibit a cyclical trend.



**Annual Averaged Lower Tropospheric Winter Season Air
Temperatures for Western Canada NCEP Reanalysis
(135W – 100W x 60N – 48N, 925 mb)**



What is Canada's climate situation and the threat of a "Climate Emergency"?

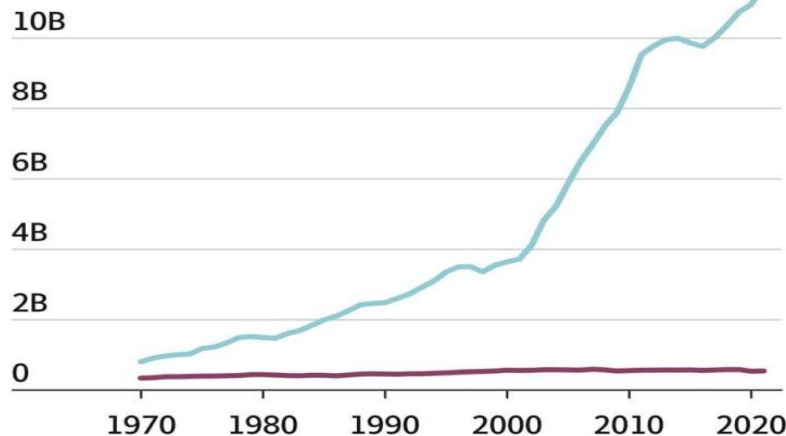
Canada's CO₂ emissions are very small. Other countries are significantly increasing CO₂ emissions

The International Energy Agency 2022 Coal Report documented that in 2021–22 global coal demand increased by 3.2% and for the first time passed 8 billion tons. Coal use in electricity generation is globally at an all-time high.

Carbon emissions: Canada vs. China

Annual CO₂ emissions from fossil fuels and industry, in billions of tonnes

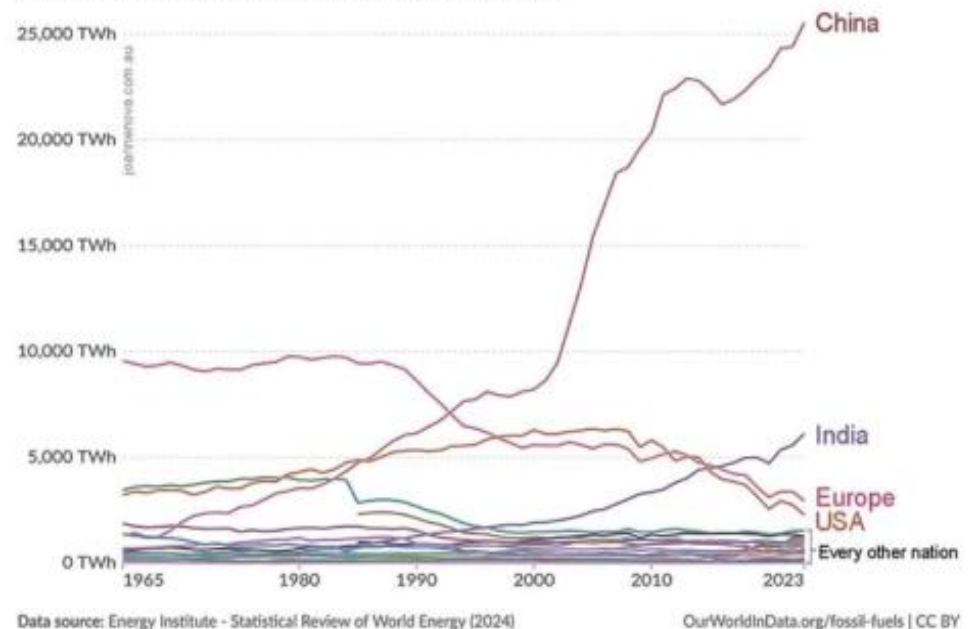
— Canada — China



JOHN SOPINSKI / THE GLOBE AND MAIL, SOURCE: OURWORLDINDATA.ORG

Coal consumption

Coal consumption by country or region, measured in terawatt-hours (TWh).



Other 3rd world countries are also increasing coal burning for electricity use to meet energy needs

- https://open.substack.com/pub/robertbryce/p/the-iron-law-of-electricity-strikes?r=ukert&utm_campaign=post&utm_medium=email
- <https://www.heritage.org/global-politics/commentary/china-abandons-paris-agreement-making-us-efforts-painful-and-pointless>
- <https://co2coalition.org/2024/10/14/western-households-sacrifice-as-asians-splurge-on-coal/>

What is Canada's climate situation and the threat of a "Climate Emergency"?

Canadian trees capture more than the total Canadian CO₂ emissions

Canada has **594.7 billion trees**

Canada produces **559 Megatonnes of Co₂**

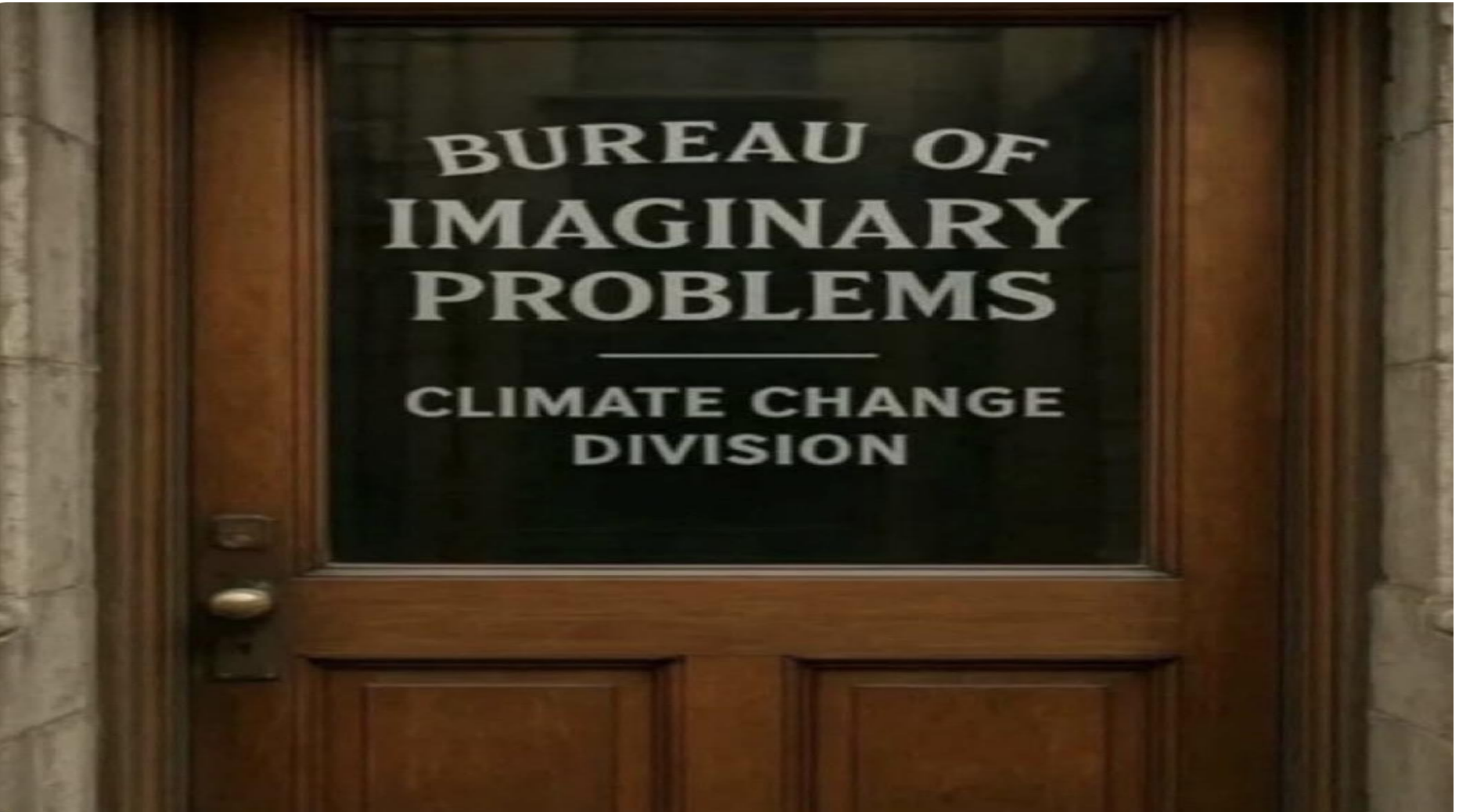
To capture all of Canada's Co₂, it takes **25.7 billion trees**



Therefore, Canada has **569 billion unemployed trees...**

It's obvious the **Carbon Tax** is one of the largest scams in Canadian history!

Are warmer temperatures and higher CO₂ levels causing a climate crisis?

A photograph of a wooden door with a large glass panel. The text on the glass panel is in a serif font, with 'BUREAU OF IMAGINARY PROBLEMS' in large letters and 'CLIMATE CHANGE DIVISION' in smaller letters below it, separated by a horizontal line. The door is set in a stone wall.

BUREAU OF
IMAGINARY
PROBLEMS
—
CLIMATE CHANGE
DIVISION

False Climate report: News about Media Doing 'damage Control' As Widely Reported Study ... Climate Scam Explanation <https://www.facebook.com/share/v/14PYv1fEJhD/?mibextid=wwXlfr>
Fossil Fuels | Climate Chronicles - CO₂ Coalition

Are warmer temperatures and higher CO₂ levels causing a climate crisis?

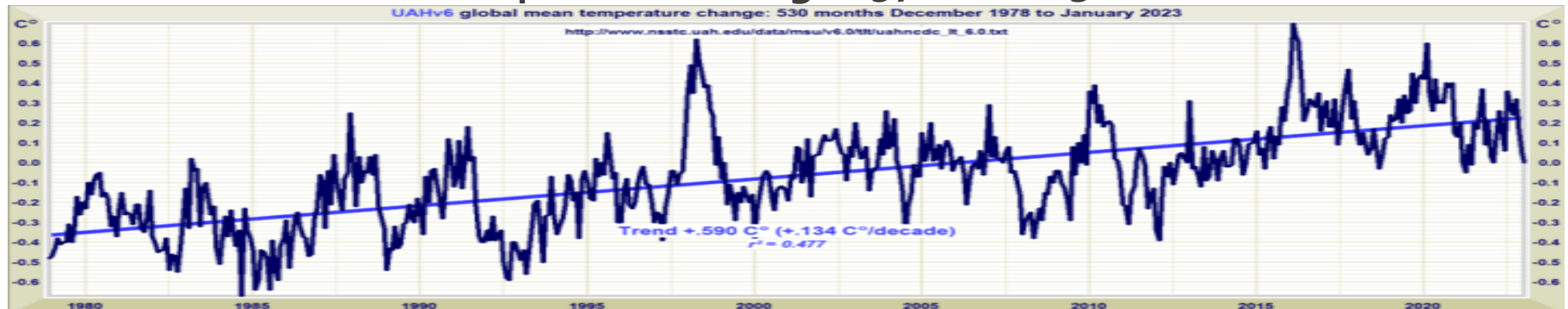
Global warming is slow, small, harmless and on the evidence to date, beneficial

There has been a warming trend since the late 19th century of only about +1.2 – 1.5 °C since pre-industrial times (1850- 1900 baseline), recovering from the Little Ice Age, a cooler period centred on Eurasia. However, over the last 541 million years, Earth's average temperature has often hovered around 19 – 25 °C, far warmer than today's ~16 °C, with thriving ecosystems and no human influence. Our current interglacial is relatively cool. A degree or two of variability fits natural cycles

Global mean temperature change September 2014 to January 2023



Global mean temperature change 1978 to 2023



Is sea level rise and rate of rise unusual and a major concern?

The rate of rise we've seen over the past centuries is not increasing,

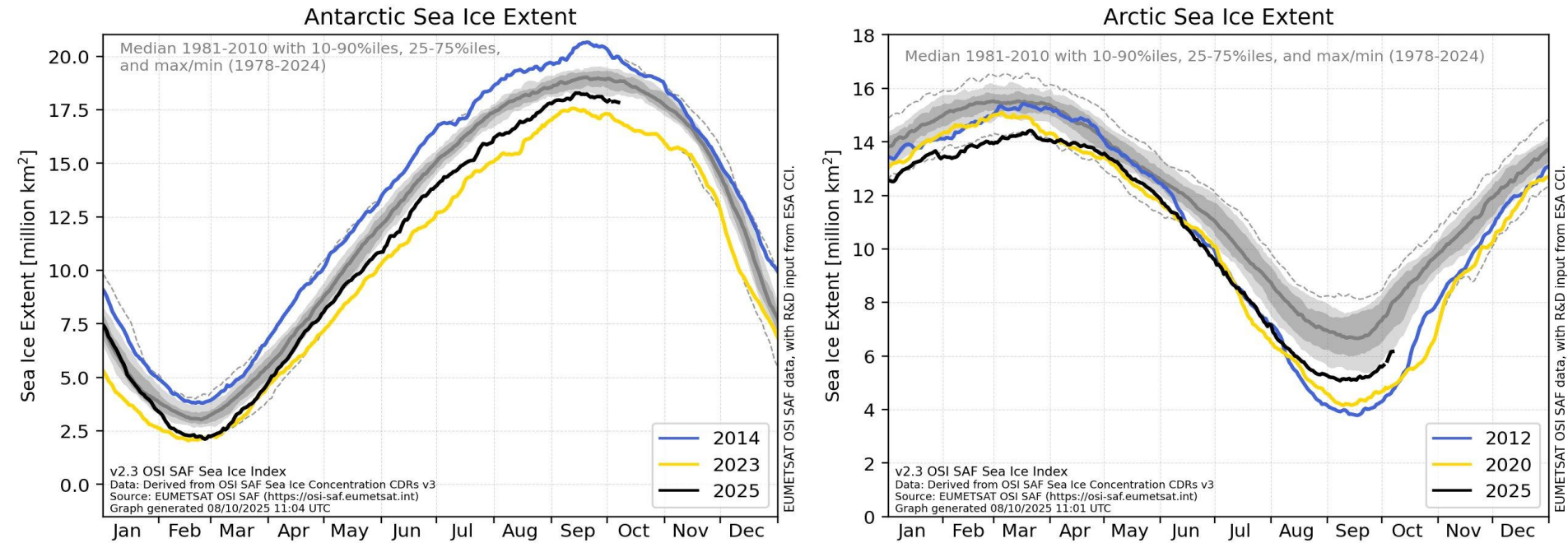
- At the peak of the last ice age, 20,000 years ago, sea levels were 400 feet lower than today.
- As the ice sheets melted, oceans surged upwards, rising at an average of 15 mm per year between 15,000 and 8,000 years ago.
- During 'Meltwater Pulse 1A', seas shot up by 50 feet in just 500 years - a foot per decade as ice sheets collapsed. But by 6,000 years ago, the Great Melt was largely complete.
- Since then, sea levels have been relatively stable. Yet today, we're told to believe that the last few inches are catastrophic and all our fault, not part of the natural cycles that have driven Earth's climate time immemorial.
- That ignores history, data and basic science.
- The rate of rise we've seen over the past centuries is not increasing, according to global tidal gauge data.
- A recent study of 204 tidal gauges worldwide found 95% show no statistical acceleration, and the few that do are explained by local land motion/subsidence - not climate change.

<https://x.com/i/status/2027549315586265239>

Is sea level rise and rate of rise unusual and a major concern?

Polar Sea ice extent at both poles is now tracking close to their 1981–2010 averages

Antarctic ice has rebounded sharply from last year's low, while Arctic coverage is now within normal range,



Back in 2009, the newly appointed director of the NSIDC, Mark Cerise, warned that Arctic sea ice was in a "death spiral". He predicted the Arctic could be ice-free by the summer of 2030, likely even earlier. Nearly two decades later, the data tell a different story.

According to the NSIDC's own records, September sea ice has shown no downward trend since 2007. That's 18 years of stability.

Despite rising CO₂ levels and every claimed feedback mechanism, the ice is not budging.

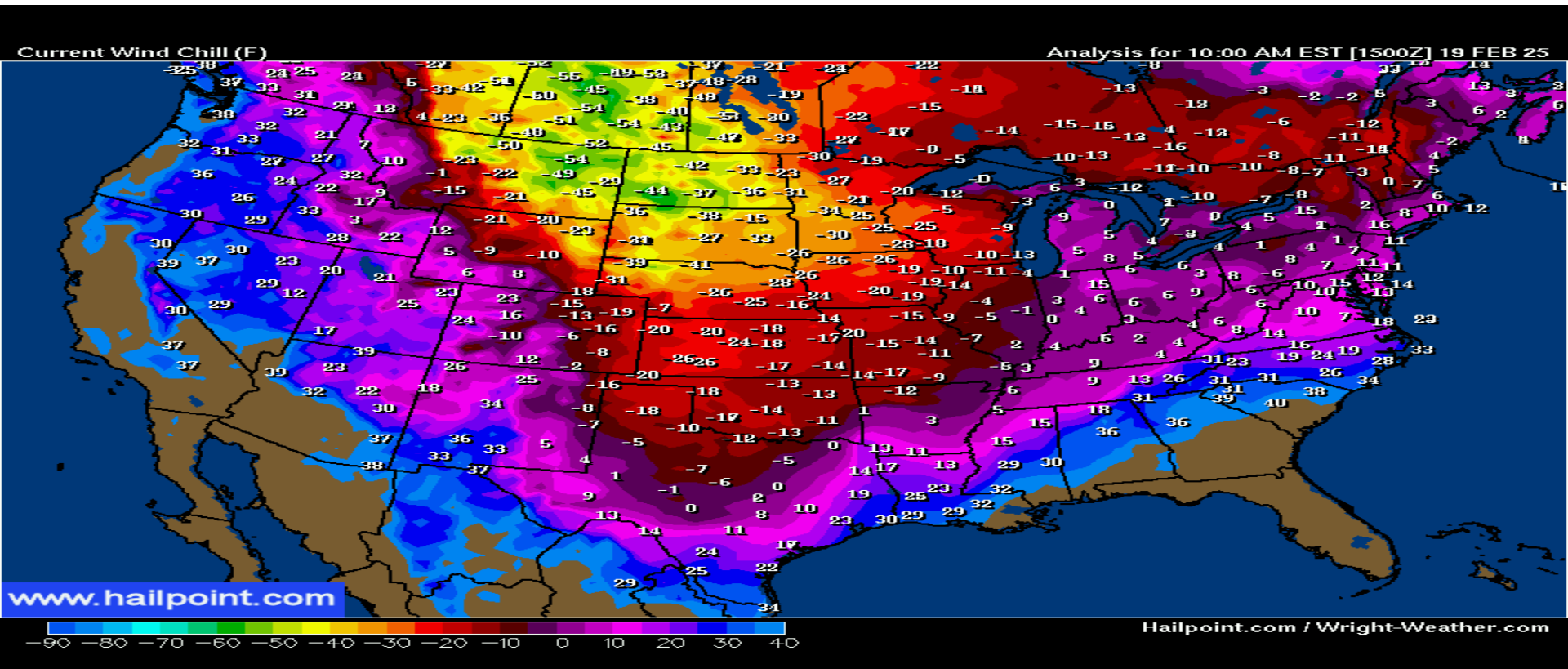
As climate researcher Javier Vinós put it, "clearly the models on which these predictions are based do not accurately reflect the actual climate." The Arctic death spiral never happened..

Are warmer temperatures and higher CO2 levels causing a climate crisis?

February 19, 2025: Record-breaking cold across North America

- Recent low temperatures go against CO2 driven global warming climate crisis

Record-breaking cold: Temperatures to plunge to as much as 50 degrees below



<https://www.cnn.com/2025/02/18/weather/frigid-cold-us-flooding-tuesday-hnk/index.html>

What Climate Crisis? Weather Channel Reports "Record-Breaking Cold" For August

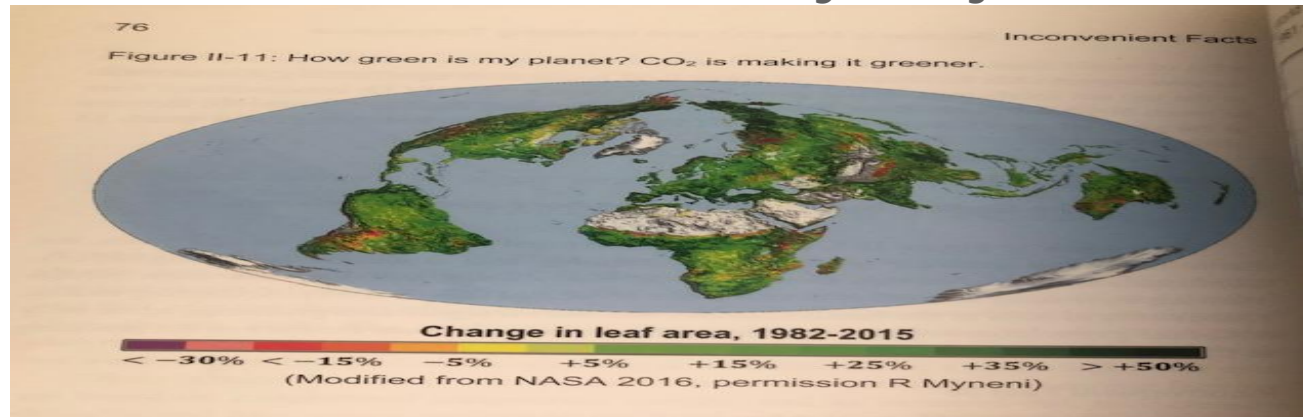
<https://www.zerohedge.com/weather/what-climate-crisis-weather-channel-reports-record-breaking-cold-august>

Are higher CO₂ levels good or bad?

Between 1982 to 2015 the world has been greening with increases in CO₂

- NASA satellite images show vast regions with increased growth due mainly to higher levels of CO₂, as increased CO₂ levels mean plants require less water to grow. Examples are the greening of the lower Sahara and the retreating deserts in China. More CO₂ has resulted in more and more rapid plant growth with significant greening. Since 1980, the semi-arid areas have greened by 40%
- Global warming increases cold temperatures much more than warm temperatures. Temperate and Arctic regions are affected much more than tropical areas, where temperatures have varied little
- As CO₂ continues to rise, global plant growth will also increase. [Forests have expanded globally.](#)

Increases in Leaf Areas between 1982 -2015



Reference book: Inconvenient Facts page 76, 213

Source: Modified from NASA 2016, permission R Myneni

Reference book: Cool It Page 12; <https://youtu.be/M8iEE02UIbA> William Happer

[Study finds CO₂ is greening the earth and making vegetation flourish worldwide \(westernstandard.news\)](#)

[New study finds that CO₂ is increasing the rate by ... - CO₂ Coalition](#)

Are higher CO₂ levels and warmer temperatures good or bad?

Science & Observations Do Not Support Net Zero Policies?

Dr W.A. Van Wijngaarden

Actual Impact of CO₂

Ocean Acidification

- Without CO₂ oceans would be very basic with pH of 10.5, like bleach, and would not support life in oceans
- Doubling atmospheric CO₂ lowers ocean pH from 8.18 to only 7.93. This is less than pH variations with latitude, longitude and depth in oceans. This is also comparable to diurnal pH change in surface waters, due to photosynthesis during day and respiration at night
- Coral reefs grow best in warm water

Vegetation

- Vegetation grows much faster with higher CO₂ plus absorbs more CO₂ so may mitigate rate of CO₂ increase
- Increasing CO₂ reduces hole pore space in plants, less water loss and easier to grow in arid regions
- Methane Impact
- Warming due to methane is 1/10th that of CO₂ because of the very low amount of methane being added
- Shooting all the cows would reduce temperature effect by only 0.05 C degrees --a completely trivial amount

Conclusions

- Doubling of CO₂ warms the Earth by 1 Degree C with an unknown impact on clouds and any added effect
- Evidence does not support hysteria about polar ice sheet retreat, sea level rise or related items
- There is no observed change in precipitation, frequency of severe storms, tornadoes, hurricanes or forest fires
- Sea life, such as coral reefs, are not endangered by small temperature rises
- Net zero efforts to outlaw fossil fuels, reduce cattle numbers and fertiliser use endanger food supply and make it impossible to preserve our standard of living and are not supported by scientific evidence

[Do Science & Observations Support Net Zero Policies?](#)

Are higher CO₂ levels good or bad?

Increases in CO₂ have very beneficial effects Peter Clarke on CO₂ and the greening planet

Positive Impacts of Added CO₂

- Global crop yields have risen 15 – 20 % since 1960, almost entirely attributed to CO₂ fertilisation (Idso, 2013, IPCC AR6 WG1 Ch5). Famine deaths have also plummeted over time as the world's population doubled. CO₂ deserves much of the credit. Increased CO₂ over the past century has supported this explosion in plant life and available plant food from booming agriculture.
- There has been a more than 18% increase in the global leaf area in 40 years (from CO₂ fertilisation). Warmer, more balmy temperatures are also lengthening the growing seasons. Every 100 ppm increase in CO₂ typically boosts plant growth by 25-50 % in all non-water-limited conditions. My analysis draws on 776 studies from 1993-2019, clearly showing that an increased CO₂ level delivers an increase in global biomass.
- This is an astonishing windfall for life on earth, chiefly from CO₂, a trace gas at 420 ppm (or 0.04%). It also has a secondary benefit for life by contributing to baseline levels of warmth around the planet, along with water vapour and other trace gases with similar properties, like methane (1,920 – 1830 parts per billion). However, this is not enough to be the defining control knob for changing the climate around the world.
- These are the reasons why commercial greenhouses pump CO₂ to 1000-1500 ppm. It ensures that crop yields jump by 20-70% depending on the crop. If 1000 ppm is good for tomatoes, why is 420 ppm an emergency for the planet?

Are higher CO₂ levels good or bad?

Increases in CO₂ have very beneficial effects Peter Clarke on CO₂ and the greening planet

Positive Impacts of Added CO₂

- Water vapour and cloud cover are the mainstays of rainfall and the entire hydrologic cycle, returning water as precipitation to rivers, lakes and maintaining the oceans (where 78% of rain ends up).
- The world population has more than doubled since 1970, going from roughly 3.7 billion to over 8 billion by 2022-2025. The population tripled since 1950. This massive global expansion was supported by increased food production and agricultural advancements, known as the Green Revolution.
- CO₂ is the foundation for life on Earth and the chief source of photosynthesis. It also delivers the calcium carbonate in water to produce exoskeletons for all shellfish. This is the miracle of CO₂, enabling green chlorophyll plants and algae to convert sunlight into food energy and oxygen. In this way, CO₂ supports every food chain on earth.
- Science shows that 500-1000 ppm of CO₂ plus 1-2 ° C extra warming hits the sweet spot for all terrestrial and marine life, including human civilisation. We should be managing adaptation and energy abundance, not waging a war on a trace gas that makes the planet greener. Higher CO₂ gives a net benefit to life on Earth. This means the current carbon-neutral policy of driving down CO₂ levels - the purpose for net-zero - is anti-life.

Is present Global Warming a man-made or a natural phenomenon?

365 years of temperature data from central England, the world's longest-running climate record, show no trend

Despite a six-fold rise in population and a surge in CO₂, January temperatures have barely shifted since 1600. Likewise for July, the hottest month of the year, temperatures are virtually unchanged.

Even during the coal-fired Industrial Revolution there was no sudden spike. The warmest winters on record occurred in the 1700s, the 1800s, and the early 1900s, long before modern emissions.

Any warming appears slow and natural, with the slight modern uptick likely linked to two factors:

- 1) the urban heat island effect, and
- 2) 2) Earth's gradual recovery from the Little Ice Age.

If carbon dioxide truly controlled the climate, the CET record would shoot upward on the right. It does not.

<https://x.com/i/status/2035370856583409820>

Is present Global Warming a man-made or a natural phenomenon?

Human crises were much higher during the period of a deteriorating, colder climate

1815 Volcanic Eruption Results in a Cold, Devastating Period

- On April 5, 1815, Mount Tambora volcano in Indonesia, erupted, releasing 100 cubic kilometres of molten rock—and ash clouds that covered an area the size of Australia—into the sky.,cooling the Earth's temperature, resulting in starvation and misery
- It took a full year after the eruption for the shockwaves to reach Canada. On April 12, 1816, it began snowing in Quebec City—and it didn't stop. A news report from April 18 wrote, "The country has all the appearance of the middle of winter, the depth of snow being still between three and four feet. We understand that in many parishes the cattle are already suffering from a scarcity of forage.". By June, the noontime temperature in central Ontario was just one below zero. In the Quebec countryside, newly shorn sheep began dying from the cold. The *Montreal Herald*, meanwhile, urged readers to plant as many potatoes as possible in case the summer's wheat crops failed completely.
- Manitoba [witnessed](#) a cold spell that began on June 5. "A very sharp frost at night... killed all the barley, wheat, oats and garden stuff above the ground except lettuce and onions"
- Cold fronts continued to sweep through Lower Canada in July. By September, Lower Canada was destitute. Up to four-fifths of the region's hay crops were ruined, while the frost left the province with a small wheat harvest and an even smaller supply of oats. Farmers were forced to sell their dairy cows to buy bread, while others survived on a diet of wild herbs.

Is present Global Warming a man-made or a natural phenomenon?

Human crises were much higher during the period of a deteriorating, colder climate

1815 Volcanic Eruption Results in a Cold, Devastating Period

- These cold-related disasters also occurred in the rest of the world
- Summer frosts also devastated much of the eastern United States, from New England to Virginia. Failing crops and rising bread prices led many hungry settlers to leave for areas in the Midwest, particularly modern-day Indiana and Illinois.
- Across the Atlantic, the citizens of Germany and France struggled with surging food prices. In the Netherlands, rainstorms destroyed so much hay and grain crops that farmers, fearing their livestock would die of starvation, began slaughtering them. Ireland, meanwhile, faced famine as the region's wheat, oat and potato harvests failed.
- India was ravaged by several late-season downpours. As harvests failed, a combination of famine, mass migration and crowded communities led to the world's first cholera pandemic. By the winter of 1816, the disease broke out in northeastern Bengal—where it killed 10,000 people in two weeks—and spread across Nepal, Thailand, the Philippines, China and Japan.

Reference [witnessed](#) 1816, the year without a summer

Is present Global Warming a man-made or a natural phenomenon?

1) Volcanic eruption, a natural event, warms the Earth's surface

Hunga Tunga Ha'apai Volcano Impacts Global Atmosphere

The eruption of the Hunga Tonga-Hunga Ha'apai volcano 490 feet under the waves on January 15, 2022, blasted an enormous amount of water and volcanic gases into the sky higher than any other eruption in the satellite era. This underwater explosion sent 146 million tons of water from the South Pacific Ocean into the stratosphere.^[60] changing the water composition of Earth's atmosphere and potentially heating it up *for years*. In just a few days, the superheated water from the Hunga Tonga eruption blanketed the entire globe, pole to pole, East to West. It caused the most intense atmospheric explosion ever recorded by modern instruments.

The amount of water vapor ejected was 10 percent of the stratosphere's typical stock.^[61] It was enough to temporarily warm the surface of Earth. It is estimated that an excess of water vapour should remain for 5–10 years.^[59] Hunga's eruption broke all records for injection of *water vapor*—the most powerful greenhouse gas—into the atmosphere. [NASA](#)

[Bing Videos](#) Hunga Tunga satellite view

[A volcanic eruption sent enough water vapor into the stratosphere to cause a rapid change in chemistry - NOAA Research](#)

Is Global Warming caused by increased CO₂?

Factors that impact Climate Change

The biggest factor influencing weather and climate patterns on Earth is the Sun.



<https://www.youtube.com/embed/1Mj16tiUyl4>

Water impact on global temperatures https://youtu.be/4swl8_4LfWc;

<https://dailysceptic.org/2025/09/20/sun-and-cosmic-rays-drive-climate-not-co2-says-astrophysicist/>

Is Global Warming caused by increased CO₂?

Factors that impact Climate Change

- **The biggest factor influencing weather and climate patterns on Earth is the Sun.** Depending on the Earth's position to the sun at any given time, climate conditions are going to vary dramatically (day/night, seasons, etc)
- NASA states that the Earth's orbit and the resulting changing angle of the Sun's rays (Milankovitch cycles) are the likely cause of long-term changes to Earth's climate. These cycles operate over timescales of tens of thousands or hundreds of thousands of years. The Earth is presently warming from the last ice age.
- The climate system is very complex. Compared to the effects of the Sun and other natural phenomena, mankind's contribution of CO₂ makes a minor impact on the Earth's energy balance and overall climate:

i) Sun's energy and Sunspot energy emissions. There is a close correlation of temperature with solar activity plus longer-term changes (Milankovitch cycles); ii) clouds have 25 times more impact than mankind's CO₂ impact; iii) tectonics and moving plates and associated volcanos; iv) orbital parameters impact on climate orbit, tilt, wobble effect; v) atmospheric and ocean circulations; v) ocean oscillations; vii) wind circulations; viii) total greenhouse gases. The influence of added CO₂ on the climate has only a minor influence on a massive system.

<https://www.sott.net/article/420049-NASA-admits-climate-change-occurs-because-of-changes-in-Earths-solar-orbit-not-because-of-SUVs-and-fossil-fuels>

[Solar Influence on Weather and Climate | Dr. Brian ...](#)

Impact of global factors on climate <http://youtu.be/KtjeNvTwYeU>

Reference book: Climate All Is Well, All Will Be Well | Jeremy Nieboer pages 28, 29

Reference book: The Real Inconvenient Truth: Chapters 3 and 4

Source:: Caleb Rossiter PhD Equal warming 1900 to 1950 versus 1950 to 2018

Freeman Dyson <https://youtu.be/BiKfWdXXfls>

[Henrik Svensmark & Nir Shaviv - How the sun regulates our climate – YouTube](#)

[Natural Climate Variability. Does CO₂ Have Any Effect? | Prof. Judith Curry – YouTube](#)

<https://www.sott.net/article/420049-NASA-admits-climate-change-occurs-because-of-changes-in-Earths-solar-orbit-not-because-of-SUVs-and-fossil-fuels>

<https://www.youtube.com/watch?v=b50yv8I6I-g>

Importance of Sun on Climate [Willie Soon](#)

<https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2024GL111500> - Volcanic activity can have a significantly greater effect than CO₂

[Feed | CO₂ Coalition Discussion Group](#) Climate Change and Extreme Weather Events Jim Steele

Is Global Warming caused by increased CO₂?

Ocean currents, clouds and the urban heat island effects also impact Climate Change

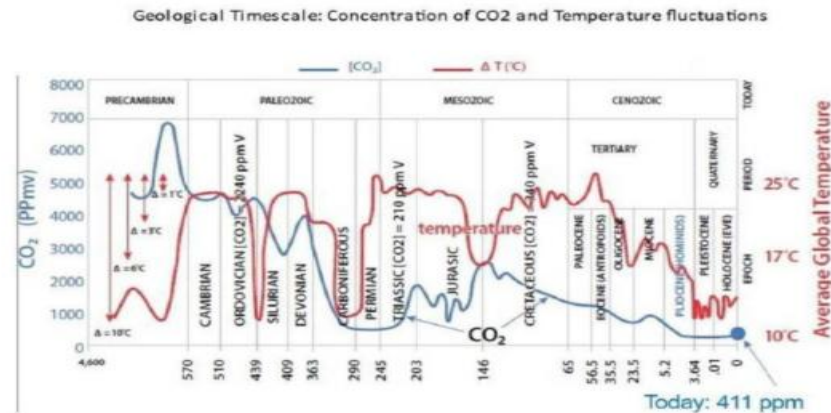
- Cycles of changes in the Earth's ellipsoid orbit cause ice ages every 100,000 years and the changing tilt of the Earth on a 40,000-year cycle causes an increase or decrease in the intensity of an Ice Age
- Prolonged periods of reduced solar activity, termed a Grand Solar Minimum, contributed to the Little Ice Age. Long periods of increased solar activity, termed a Grand Solar Maximum, helped pull the Earth out of the Little Ice Age and contributed to the 20th century global warming.
- The El-Niño Southern Oscillation is so big it drives more than weather; it impacts a longer-term climate change cycle of building up heat on the surface of the Pacific Ocean that warms the atmosphere (El Niño) and then a cooling of the ocean surface, which cools the atmosphere (El Niña). The El Niño effect could explain all the global warming since 1859.
- Other factors impacting the climate include ocean currents, clouds and the urban heat island effect.
- Ocean currents have a major impact on temperatures. However, CO₂ is not a factor in heating or cooling the ocean, as CO₂ gives off longwave infrared radiation, which can only penetrate the ocean's surface by less than a millimetre. This longwave radiation is then immediately released back into the atmosphere. Only the Sun's ultraviolet, visible, and short-wavelength infrared can penetrate many metres into the ocean's surface and heat the water.
- Clouds also impact temperature. Water-rich clouds over the tropical oceans have the greatest cooling effect and low-water ice clouds at high altitudes have the strongest warming effect.
- Higher global surface temperatures result in more surface water being evaporated into water vapour, which enables more water-rich cloud formations when the water vapour condenses. This results in a cooling effect. Nature is dominated by negative feedbacks like this, which mitigate climate change.
- A 1 % change in cloud cover can have the same effect as doubling CO₂ levels.
- Reaching so-called "tipping points" is rare, as complex natural balances of multiple variables have mitigated changes and have done so throughout geologic time.
- All human permanent settlements also contribute to climate change. The average minimum daily temperatures have been warmer because of the urban heat island effect. Reference book *Sunset on Net Zero* by Ron Barnby

Is Global Warming caused by increased CO₂?

Graphs showing both temperature and CO₂ levels changed over last 600 million years

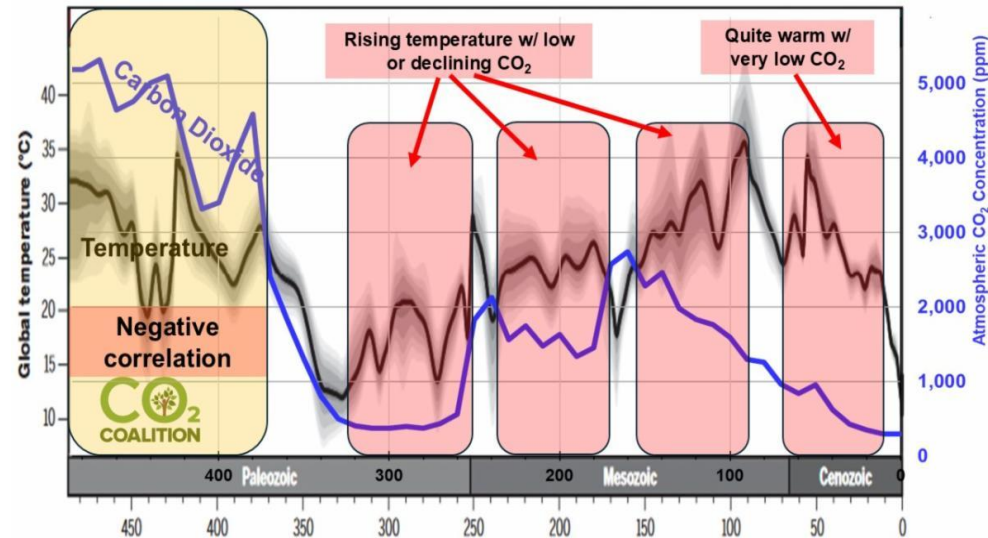
There is no correlation between CO₂ changes and temperature changes over geologic time

- From about 550 to 350 million years ago (the Paleozoic Era), while life was restricted to the oceans, CO₂ fluctuated from 10 to 25 times higher than today's levels. CO₂ dropped sharply in response to the appearance and spread of land plants about 350 million years ago, then shot up again during the Mesozoic Era.
- From peak CO₂ values of more than ten times the current levels 150 million years ago, CO₂ began a long, gradual decline to today's low levels, as seen in the ice core samples.
- **485 Million Years of Non-Correlation!**



1- Analysis of the Temperature Oscillations in Geological Eras by Dr. C. R. Scotese © 2002. 2. Ruddiman, W.F. 2001. Earth's Climate: past and future. W.H. Freeman & Sons. New York, NY. 3 - Mark Pagani et al. Marked Decline in Atmospheric Carbon Dioxide Concentrations During the Paleocene. Science, Vol. 309, No. 5734; pp. 600-603. 22 July 2005. Retrieved on 07 July 2008 [CO2: Ordovician Period].

Reconstructed atmospheric carbon dioxide concentrations (Berner, 2001) & global mean surface temperature (Scotese, 1999) over the last 550 million years.



Reference book The Real Inconvenient Truth page 77, 81

[What's the hottest Earth's ever been? | NOAA Climate.gov](https://www.noaa.gov/what-is-the-hottest-earth-ever-been/)

[A Runaway Greenhouse Effect On Earth is Very Unlikely \(youtube.com\)](https://www.youtube.com/watch?v=...)

PALEOCLIMATE A 485-million-year history of Earth's surface temperature

Emily J. Judd*, Jessica E. Tierney, Daniel J. Lunt, Isabel P. Montañez, Brian T. Huber, Scott L. Wing, Paul J. Valdes

What could have caused changes in CO₂ levels over geologic time?

Comments CO₂ and Climate Change

- The emergence of plant life 450 MY ago resulted in plants absorbing CO₂ and adding O₂
- Plate tectonics and volcanics added CO₂. Colliding and spreading plates and warm oceans, which release CO₂ to the atmosphere, presently add about 280 to 360 million tonnes (0.28 to 0.36 Gt) per year of CO₂.
- About 85% of the planet's volcanoes are submarine and account for 75% of the heat transfer to the surface from molten rock, which releases monstrous amounts of CO₂.
- Large disturbances, including immense releases in magma, occurred at least five times in the past 500 million years, dramatically increasing the overall level of CO₂.
- Plants and cold oceans are major reservoirs for absorbing CO₂.
- Over geologic time, global temperatures changed independently from changing CO₂ levels, which have been generally decreasing over the last 150 million years.
- Through burning fossil fuels, human carbon emissions added to atmospheric CO₂ levels
- Modern agricultural practices of preparing a field by spraying with weed killer and then light furrow planting open the topsoil and allow oxidation of the soil carbon, releasing about 18 tons (23% of total) of carbon dioxide into the atmosphere.

Reference book: Fake Invisible Catastrophes and Threats of Doom page 38

Reference book: The Real Inconvenient Truth Chapters 3 and 4; Reference book: Catchments and Carbon Lois Cabon

<https://youtu.be/JCt2MhOzWVE?si=StLeINo6uTMDXA06>

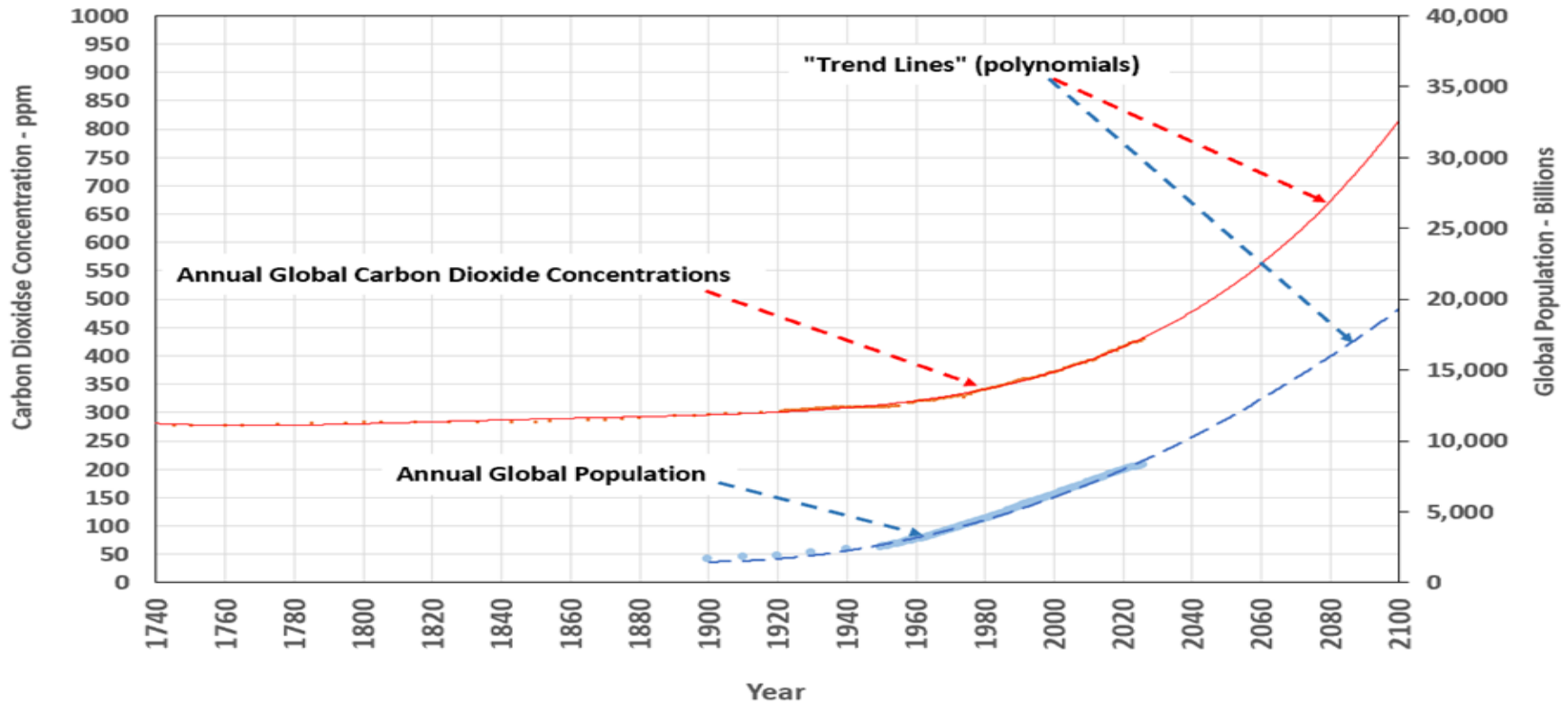
What could have caused changes in CO₂ levels over recent time?

Global population growth impacts CO₂ levels: Mankind does have an impact on CO₂ levels

A clear relationship exists between global population growth and atmospheric CO₂ levels, reflecting increased human activity.

However, the temperature data does not display a corresponding relationship.

Carbon Dioxide Concentrations and Population Growth



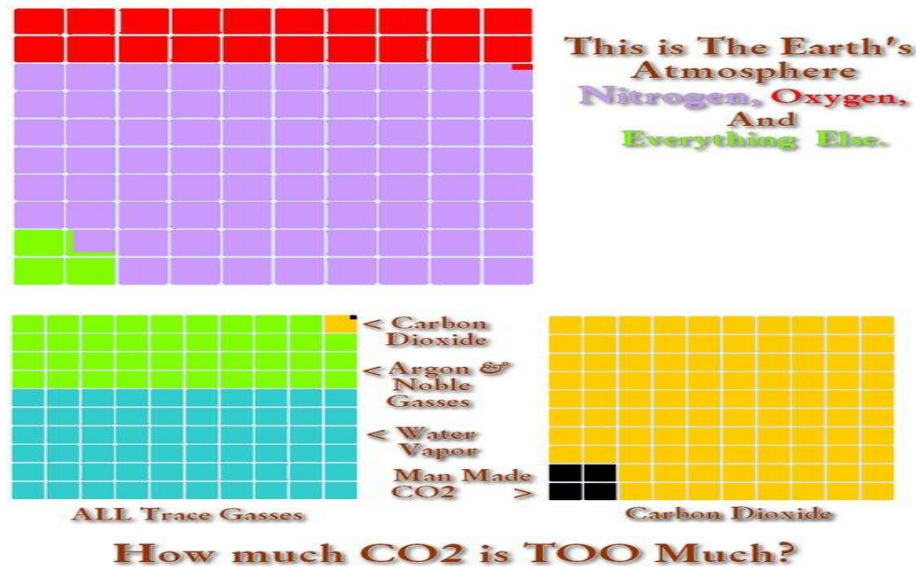
Carbon dioxide concentration versus global population growth using data for periods starting at 1740 (CO₂) and 1900 (population), data for both to 2023. Graphs extrapolated to 2100.

Reference Ian McNaughton

Is Global Warming Caused by Increased CO₂?

CO₂ takes up a very small 0.04% proportion of the Earth's total atmospheric gas

- Greenhouse gas takes up 0.8% of total atmospheric gases; CO₂ represents 5% of greenhouse gas
- CO₂ represents only 0.04% of the total atmospheric gases The human contribution to the 0.04% total is 0.0011%.
- During the world's history, CO₂ levels varied between 0.02% and 0.4%, with some very high excursions
- 0.04% equates to 4 bathtubs volume compared to an Olympic pool's 10,000 bathtubs of water
- All greenhouse gases (5% CO₂) keep the world warm, absorbing heat and radiating it back to Earth, warming the surface and atmosphere. Humans could not exist on Earth without this warming effect



Atmospheric Composition

	% ppmv	
N ₂ + O ₂	99%	78% N ₂ 21% O ₂ . Largely invisible to infrared rays
H ₂ O	0.4%	Varies greatly with location and weather, 0% in cold regions, 5% in the warm tropics (50,000 ppm)
CO ₂ total	0.0397%	Increased by 22% 1990-2025 ³²⁰ to reach 427ppm
CO ₂ anthro	0.0011%	The anthropogenic contribution is 5.3% of the total, 50% of which is absorbed by natural ecosystems = 0.04x 0.053x0.5 ³²¹
CH ₄	0.000179%	Increased by 14% 1990-2025, to reach 1.94ppm
Other gases	0.94%	Mostly Argon, which along with other trace gases are inert and don't do much in the atmosphere

<https://www.instagram.com/reel/DRZvEfsjnRj/?igsh=bWV2bm1ubDFjYzIq>

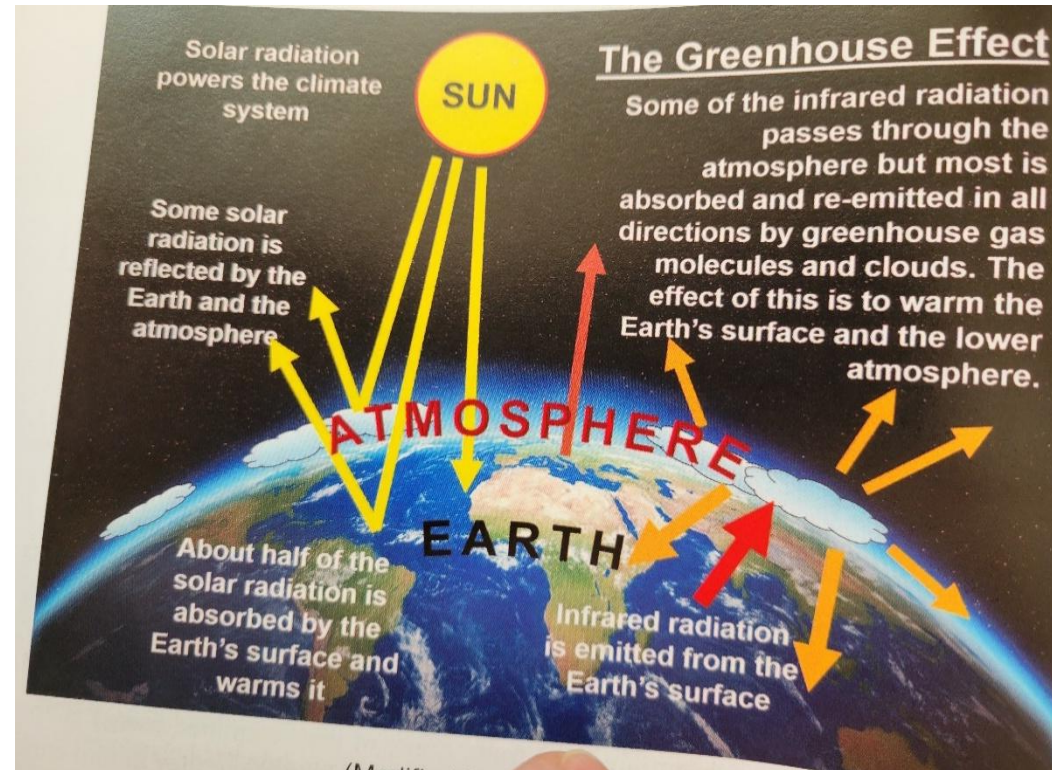
<https://www.researchgate.net/publication/335418316> What Humans Contribute to Atmospheric CO₂ Comparison of Carb on Cycle Models with Observations

Is Global Warming caused by increased CO₂?

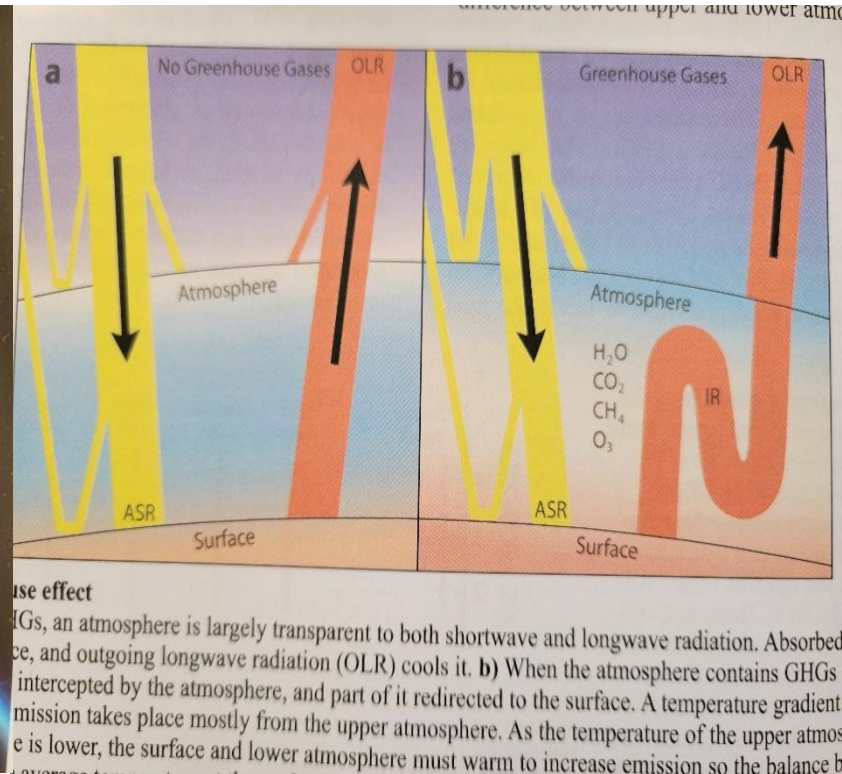
The Sun's radiation energy, the Greenhouse Gas effect and the warming from CO₂*

- 30% of the Sun's radiation is reflected by clouds and 70% passes through the Earth's atmosphere and strikes the surface.
- **Greenhouse gas** molecules, including CO₂, absorb some of this re-emitted energy and **emit** energy in the form of **heat**.
- **With added CO₂**, the absorption sensitivity of CO₂ **reduces logarithmic** (twice as much CO₂ is needed for same impact)
- This effect is similar to a sponge that initially absorbs a lot of water; this reduces as the sponge becomes saturated*

The Greenhouse Effect



The Sun's Energy Radiation Path



Reference Books:

Is Global Warming caused by increased CO₂?

The heating capacity of CO₂ reduces logarithmically. Clouds are more important.

- Max Planck delineated the spectrum of radiation from warm bodies, showing that **the impact of doubling CO₂ from 400ppm to 800ppm is only 0.71C of warming**. Doubling again to 1600ppm adds 0.35C
- Dr. W. A. van Wijngaarden and William Happer demonstrate the **dominant role of clouds on Earth's climate**. Clouds have a large effect on radiative heat transfer from Earth's surface to space. **Greenhouse gases also affect heat transfer, but much less than clouds**.
- Doubling CO₂ concentrations only decreases radiation to space by about 1%. However, clouds cover more than half the planet and an increase in **low cloud cover of only 1% could largely compensate for the same doubling of CO₂**.

Planck Curve - Effect of CO₂ on the Earth's Heat Spectrum

Temperature Impact Decreases with Increased CO₂

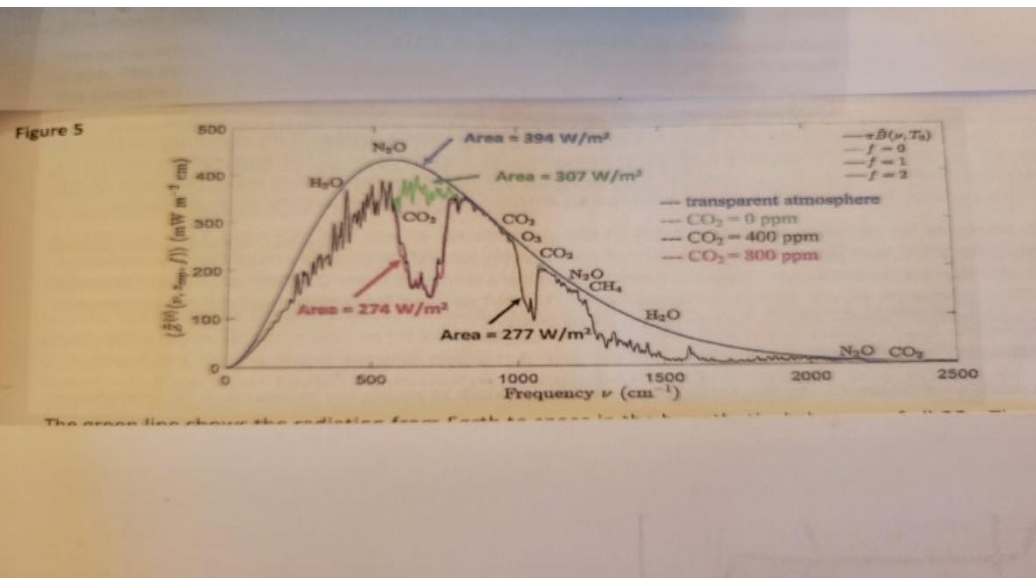
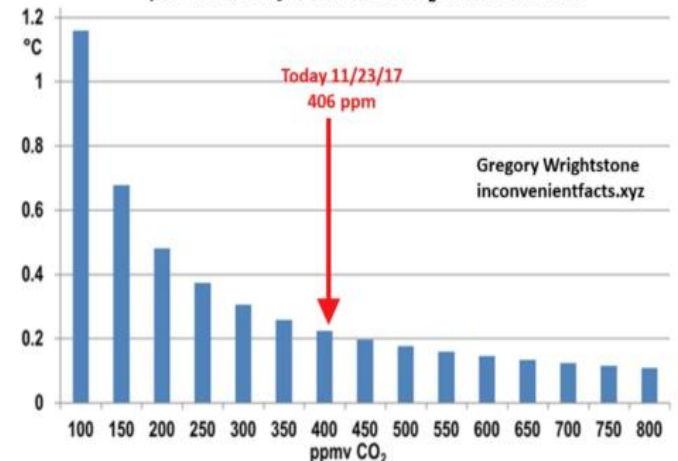


Figure I-3: Less global warming for each additional 50 parts-per-million-by-volume of CO₂ concentration



Reference: Climate All Is Well, All Will Be Well Jeremy Nieboer page 13

<https://wattsupwiththat.com/2023/09/29/professor-william-happer-ipa-lecture-the-crusade-against-carbon-dioxide-september-2023/>

<https://wattsupwiththat.com/2025/01/18/the-saturation-effect-questions-the-prevailing-narrative-on-co2/>

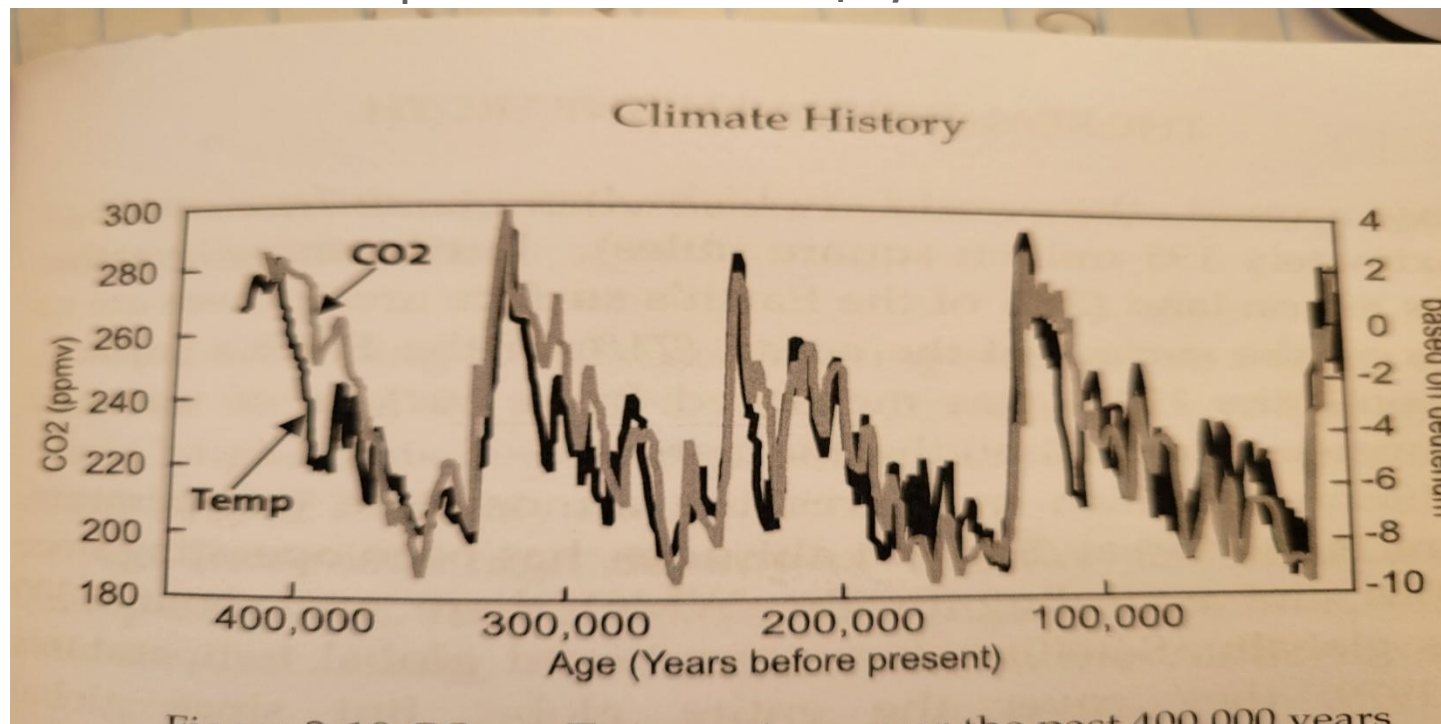
<https://co2coalition.org/publications/radiation-transport-in-clouds/> * dry sponge/wet sponge saturation effect

Is Global Warming caused by increased CO₂?

Graphs showing both temperature and CO₂ levels changed over last 400,000 years

- Changing glaciation periods are tied to changes in Earth's orbit and have occurred over the last 800,000 years
- As seen in historic ice records, **CO₂ increases occur in response to temperature increases** (650 to 6000 years later) and therefore cannot cause these preceding temperature increases (Malkovich cycles based on Earth's orbit changes)
- As temperature increases, oceans release CO₂ into the atmosphere.* **Henry's Law: warming water holds less gas**

CO₂ vs Temperature Over the Past 400,000 Years



Reference book:: The Inconvenient Real Truth page 80, 81

Source Adapted from U.S.Dept. of Energy

Is Global Warming caused by increased CO₂?

Physical chemistry (Henry's Law) shows that warming oceans cause increased atmospheric CO₂

Henry's Law explains why warmer temperatures cause higher CO₂ levels and not the other way around, as is claimed by those supporting a CO₂ driven climate crisis.

Henry's Law states that, at a constant pressure, the amount of gas that dissolves in a liquid is proportional to the partial pressure of that gas above the liquid. Henry's Law itself is about pressure, but **the Henry's Law constant is temperature-dependent**.

In practice, **warming fluids hold less gas. This is well-established physical chemistry.**

This principle is **uncontroversial** and accepted by physical chemists, oceanographers and climate scientists.

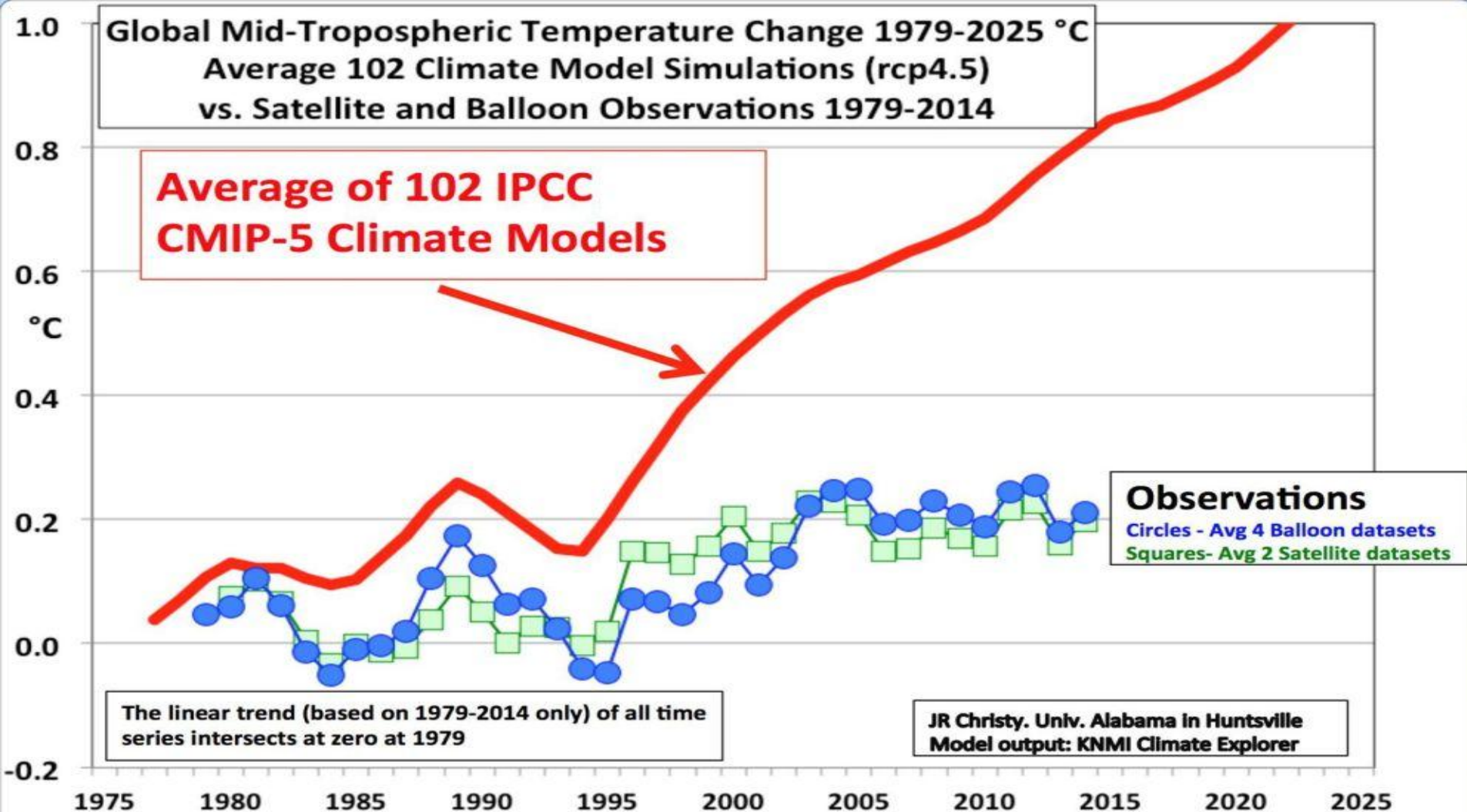
Temperature effect is important in understanding the warming ocean's release of CO₂

- As temperature increases, the solubility of most gases in liquids decreases.
- Warm water holds less dissolved gas than cold water. Cold oceans can hold more CO₂
- Warm oceans release CO₂ more easily

Why this happens: Gas molecules are only weakly bound in a liquid. When the liquid warms up, molecules move faster and it's easier for dissolved gas molecules to escape back into the atmosphere

Is Global Warming caused by increased CO₂?

CO₂-driven climate models over estimate actual trend of climate change



Reference: [John Christy: The Climate Real Deal | Science Matters \(rclutz.com\)](http://www.rclutz.com)

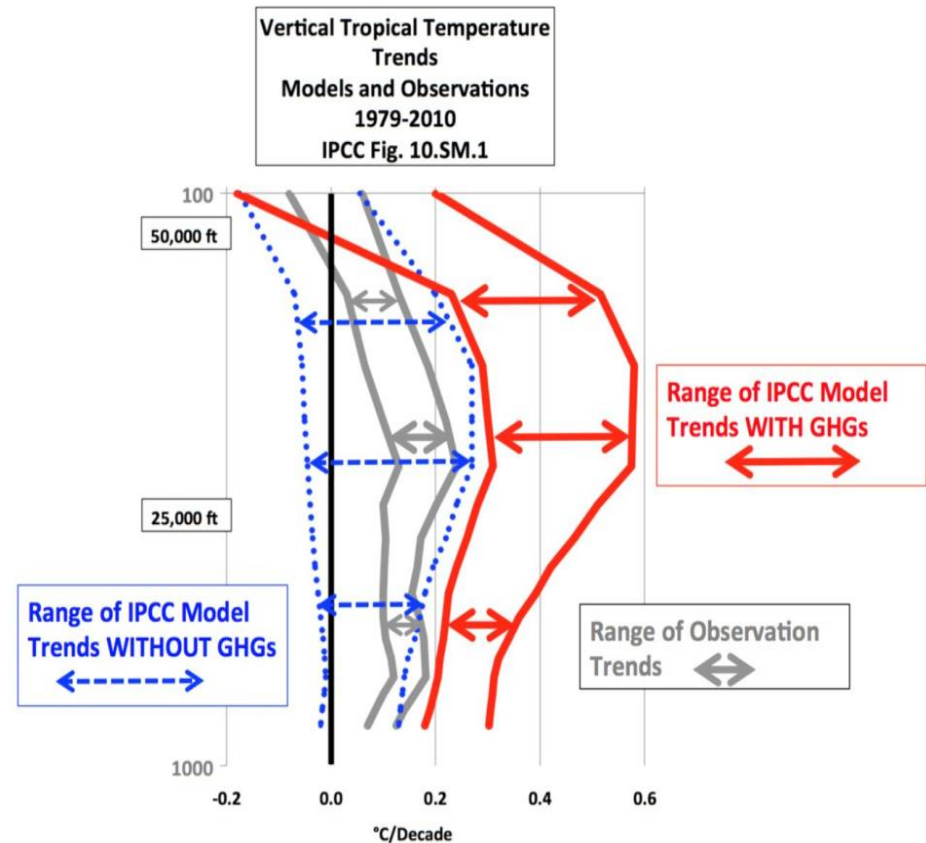
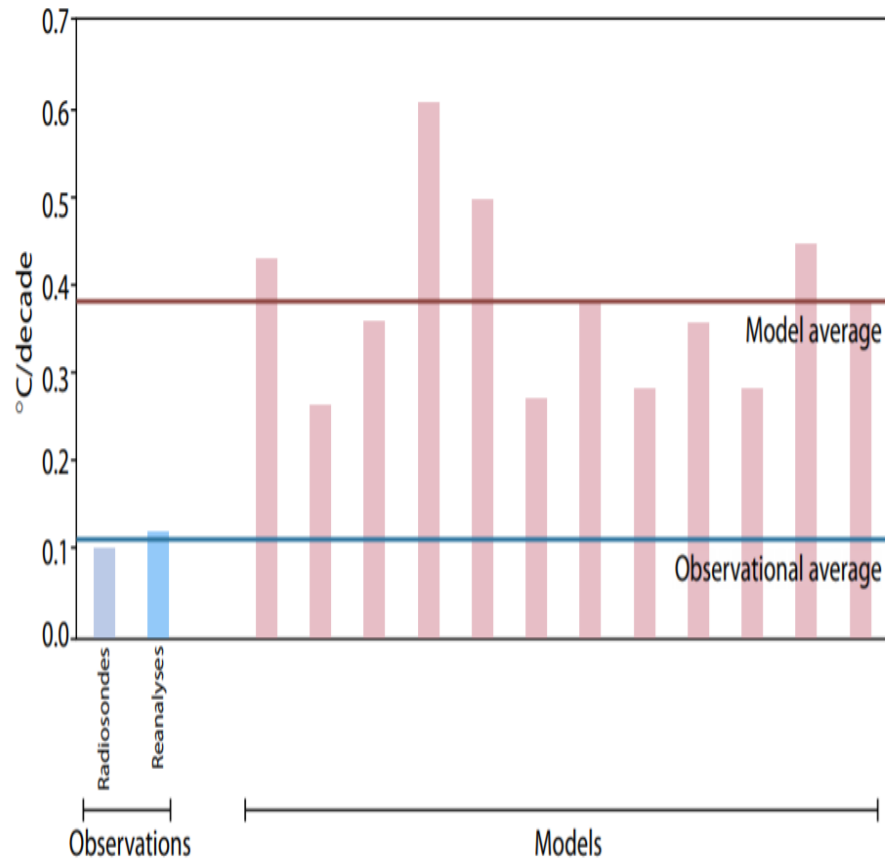
Computer Modelling [Willie Soon](#)

<https://www.youtube.com/watch?v=b5oyv8l6l-g>

Is Global Warming caused by increased CO₂?

CO₂-driven climate models over estimate actual trend of climate change

Computer climate models vs actual results

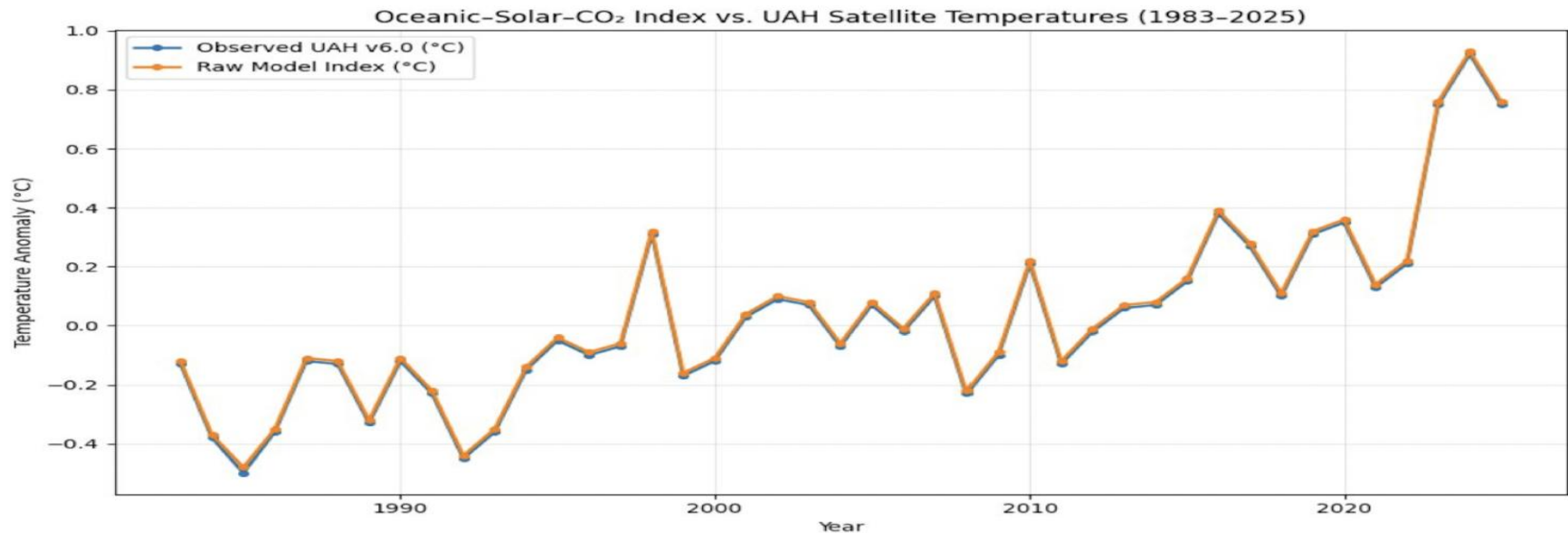


Is Global Warming caused by increased CO₂?

Finally, a successful climate change model that matches historic results

Paul Burgess's Oceanic – Solar – CO₂ index-based temperature modelling results versus satellite temperatures show an excellent match between 1983 and 2025. Having the model explain the temperatures so exactly shows that since 1983, 75% of the modest global warming experienced occurred due to natural events, strongly impacted by **ocean current changes**, with only minor CO₂ impact. Only 25% was due to mankind's added CO₂. Based on this model, another 1 degree warming, beneficial to mankind, will occur in the next 175 years.

Yearly Temperature Modeling Results 1983 -2025



Paul Burgess paper The Oceanic-Solar Index and Sea Surface Temperature A Plain-English Physical Explanation

[The Sun, The Clouds, The Oceans In My Most Important Video Ever](#) Paul Burgess's successful modelling shows that since 1983, temperature can be replicated simply by looking at the new Oceanic Index and the amount of solar radiation, not the CO₂ and a small element of CO₂.

[At last the answer: how much warming is natural and how much warming is from mankind?](#) Paul Burgess

Is Global Warming caused by increased CO₂?

Paul Burgess's climate change model demonstrates the oceans' strong impact

Changes in Sea-Surface Temperature (SST) are linked to the Oceanic-Solar Index, which provides a direct, physical explanation of why CO₂ downward reflected energy cannot make a strong impact on ocean temperatures.

1. How Energy Enters the Ocean

The ocean is warmed mainly by shortwave radiation from the Sun. This energy moves downward into the ocean and is absorbed up to the upper 100 m water column. In contrast, **CO₂-related infrared radiation is absorbed only at the very surface (due to its radiation frequency), but does not penetrate into the ocean beyond the ocean skin surface.** Sunlight heating penetrates further downward and warms a large volume of ocean water.

2. The Hairdryer and Bath Analogy

Trying to warm the ocean using CO₂ is like trying to heat a bath with a hairdryer. The air just above the water warms briefly, but the bath itself hardly changes temperature. To heat the bath, energy must be delivered deeper into the water, not just across its surface.

3. The Oceanic-Solar Index Connection

Natural ocean cycles change winds and cloud cover. With cloud coverage, less sunlight moves downward into the ocean, reducing absorbed energy and lowering the SST.

The Oceanic-Solar Index captures this sequence and the successful modelling explains (matches) the timing of observed warming associated with the oceans and not changes in CO₂.

[The Sun, The Clouds, The Oceans In My Most Important Video Ever](#) Paul Burgess's successful modelling shows that since 1983, temperature can be replicated simply by looking at the new Oceanic Index and the amount of solar radiation, not the CO₂ and a small element of CO₂.

Is Global Warming caused by increased CO₂?

Paul Burgess's climate change model demonstrates the oceans' strong impact

4 Satellite Measurements Show Limited Impact from CO₂-Reflected Heat

Using satellite measurements, the Oceanic-Solar explanation of Earth's energy balance, rather than surface ocean temperatures, demonstrates why the CO₂ downward reflected wavelength energy has minimal impact. These satellites measure how much sunlight enters the climate system, how much is reflected back by clouds, and how much energy leaves Earth again. The energy budget can be separated into two parts: all-sky covered conditions (including clouds) and clear-sky conditions (clouds mathematically removed). The key finding is that recent warming appears strongest in the all-sky covered data but is much weaker in the clear-sky data. This shows that the dominant energy change is linked to clouds and sunlight, not to greenhouse trapping in clear air. When cloud effects are removed, the apparent excess heating largely disappears, supporting the cloud-impacted solar ocean heating mechanism.

The pattern of ocean heat uptake matches what is expected from sunlight entering from above and being reflected downward, rather than from infrared heating confined to the surface.

Conclusion

Sea-surface temperature changes are controlled mainly by how much sunlight enters the ocean. Because sunlight penetrates deeply and CO₂ does not, the Oceanic-Solar Index provides a physically consistent explanation for observed ocean warming confirmed by independent satellite energy measurements.

Paul Burgess paper The Oceanic-Solar Index and Sea Surface Temperature A Plain-English Physical Explanation

[The Sun, The Clouds, The Oceans In My Most Important Video Ever](#) Paul Burgess's successful modelling shows that since 1983, temperature can be replicated simply by looking at the new Oceanic Index and the amount of solar radiation, not the CO₂ and a small element of CO₂.

What about scientists' consensus regarding man-made Global Warming crisis?

The stated scientific crisis consensus is misleading; many reputable scientists disagree

There is consensus that temperatures have been and are increasing and that mankind has increased CO₂ levels. However, there is no consensus regarding the degree to which mankind's CO₂ emissions are impacting temperatures or that this is causing a climate crisis.

A large and increasing number of world-renowned scientists speak out against this, including:

Dr. John Christy, Professor of Atmospheric Science, Director of Earth System Science Center, U. of Alabama

Dr. John F. Clauser has degrees from Caltech and Columbia University, a Nobel Prize winner in science

Dr. Judith Curry, climatologist, former chair of Earth and Atmospheric Sciences, Georgia Institute of Technology

Dr. Ivar Giaever, professor emeritus at the Rensselaer Polytechnic Institute, Nobel Prize in Physics

Dr. William Happer, Physics professor Emeritus, Princeton Univ., atomic physics, optics, spectroscopy

Dr. Steven Koonin, theoretical physicist and former director Center for Urban Science at New York Univ.

Dr. Richard Lindzen, MIT atmospheric physicist, on the dynamics of the atmosphere and ozone photochemistry

Dr. Patrick Moore, ecologist, UBC, co-founder of Greenpeace

Dr S. Fred Singer, Atmospheric physicist, professor emeritus of environmental science, U. of Virginia

2000+ Scientists sign **World Climate Declaration: THERE IS NO CLIMATE EMERGENCY** stating: i) natural as well as anthropogenic factors cause warming; ii) warming is far slower than predicted; iii) climate policy relies on inadequate models; iv) CO₂ is plant food, the basis of all life on Earth; v) Global warming has not increased natural disasters; vi)

Climate policy must respect scientific and economic realities <https://clintel.org/wp-content/uploads/2023/11/WCD-version-111523.pdf>

Many governments are also moving away from or delaying the implementation

What about scientists' consensus regarding man-made Global Warming crisis?

The stated scientific crisis consensus is misleading; the CO2 Coalition of scientists disagrees

A key player here is the [CO2 Coalition](#), which includes scientists and researchers from across the globe devoted to educating the public and policymakers about the *benefits* of CO2. Not only is the naturally occurring substance not a pollutant, but it's in fact the great elixir of life on Earth.

The coalition has a long and copious list of ["facts and data"](#) highlighting the benefits of CO2 that do not fit in with the narrative of centralized planners in Washington.

The regulatory attack on CO2 is essentially an attack on humanity itself. Dr. William Happer, a retired Princeton University physicist and founder of the CO2 Coalition, explains why.

"Carbon dioxide is at the basis of life on Earth," Happer said in an [interview](#) with Freedom Research. "We live because plants are able to chemically transform carbon dioxide and water into sugar and a byproduct is the oxygen that we breathe, and so we should all be very grateful that we have carbon dioxide."

"Life would die without carbon dioxide," he explained.

Happer and other members of the CO2 Coalition view the recent warming trend as a [natural response](#) to the planet's emergence from the Little Ice Age beginning in the 1800s. Overturning the Endangerment Finding is a matter of sound science.

- <https://dailycaller.com/2025/04/27/opinion-trump-makes-america-independent-from-the-climate-grift-kevin-mooney/>
- <https://principia-scientific.com/46-climate-change-denying-statements-made-by-former-ipcc-scientists/>

What about scientists' consensus regarding man-made Global Warming crisis?

9) The Great Climate Change Debate Professor David Karoly versus Professor William Happer

"The whole point of science is to question accepted dogma" Freeman Dyson Nov. 5, 2013

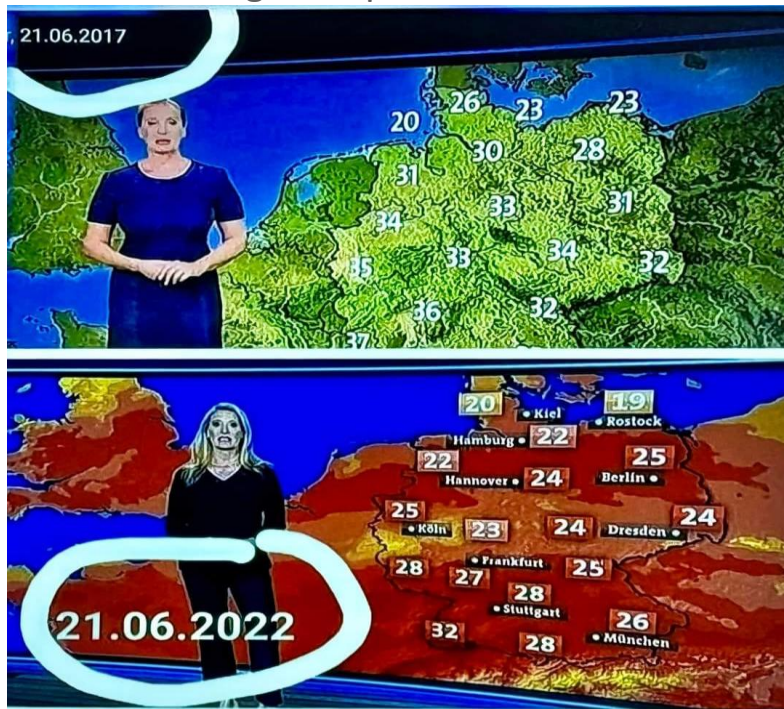
- Karoly, Tambllyn and Happer agree that the contribution of human emissions to modern warming cannot be measured and must be compared with climate models. Karoly and Tambllyn think the IPCC models are accurate and use them to predict dangers to mankind and the planet. Happer disagrees and provides evidence that the models are not accurate and compute too much warming. He also provides a calculation of the direct impact of CO₂ on temperature of about one degree Celcius per doubling of CO₂, which will take 320 years for temperature to rise two degrees over pre-industrial (Little Ice Age) levels.
- Is warming of two degrees a hazard or will we be fine up to higher temperatures? Even the assertion that two degrees above the Little Ice Age is a dangerous rise is speculative and controversial. The current global average temperature is about 15 C, but over the last 500 million years the overall average surface temperature has been estimated to be 17 to 20 C, two to five times higher than today.
- The alleged dangers due to man-made climate change hinge on Climate Sensitivity (CS). All the projected future hazards to mankind and the planet hinge on the value of CS and the global average temperature considered to be dangerous. Cloud cover feedback is, by far, the largest component of CS uncertainty. Yet, cloud feedback is unknown. The best answer to what the impact of CO₂ and clouds is on climate is "We don't know".
- Happer points out that global warming and the addition of CO₂ are beneficial and will be for many more years. The "dangers" rely on an assumed and unsubstantiated "tipping point" of an additional two degrees C. These statements are unproven. "There is no scientific basis for the claim that increases in atmospheric CO₂ due to burning of fossil fuels will cause climate change that will have substantial adverse impacts on humanity or natural systems".
- Plus, "Any resulting climate change will be moderate and there will be very major benefits to agriculture and other plant life."
- The author concludes Happer won the debate.

- Reference: Book: The Great Climate Change Debate by Andy May, Feb 2016

Are warmer temperatures and higher CO₂ levels causing a climate crisis?

The impact of media bias in reporting can be very misleading

- These graphs have similar data from different years gathered from the Government weather stations
- These German temperatures are similar, but the media message signaling is slanted and different.
- The time magazine pictures also show similar biased, sensationalized reporting, overdramatizing reality.



Reference graph from Germany Met.

Global Cooling



Global Warming



[Bjorn Lomborg on X: "UN routinely warns us that we have just a few years left until catastrophe: In 1982, Tolba, head of UN Environment Programme told the world that it had just 18 years before an environmental catastrophe as irreversible as any nuclear holocaust <https://t.co/8wyP10fJOn> <https://t.co/zDYD8ldJo5> / X \(twitter.com\)](#)

Are warmer temperatures and higher CO₂ levels causing a climate crisis?

Net Zero by 2050 is pointless and not achievable

- Net Zero 2050 is pointless. 90% of the CO₂ warming is in the past because the atmosphere is already in a [CO₂-saturated state](#). This is no longer just theoretical; it has now been [observed in nature](#), consistent with the scientific method. Since the IPCC predictions about CO₂ warming have all been wrong, their hypothesis is wrong. Period.
- A Net Zero 2050 is unachievable. A stable, affordable, non-CO₂-emitting power grid cannot be built using today's technologies, unless it is nuclear. Many of the attempted alternatives have significant environmental downsides.
- Net Zero 2050 is unfair. G7 countries have dropped their share of total global emissions from 40% to 21%, while their share of global GDP dropped from 51% to 41%. China went from 14% to 31% of global emissions, while its share of global GDP increased from 3.6% to 17%. And poor countries are paying more for food as crops are turned into biofuels.
- **The WEF introduced Net Zero and the Climate Crisis to control humanity**

[*'Sunset on Net Zero: A Heretic's Guide to the Futile CO₂ Target'*, Ron Barnby](#)

Media doing 'damage control' as widely reported study on cost of climate change gets retracted

[News about Media Doing 'damage Control' As Widely Reported Study ...](#)

[Dr Steven E Koonin - With climate realism ascendant, what now?](#)

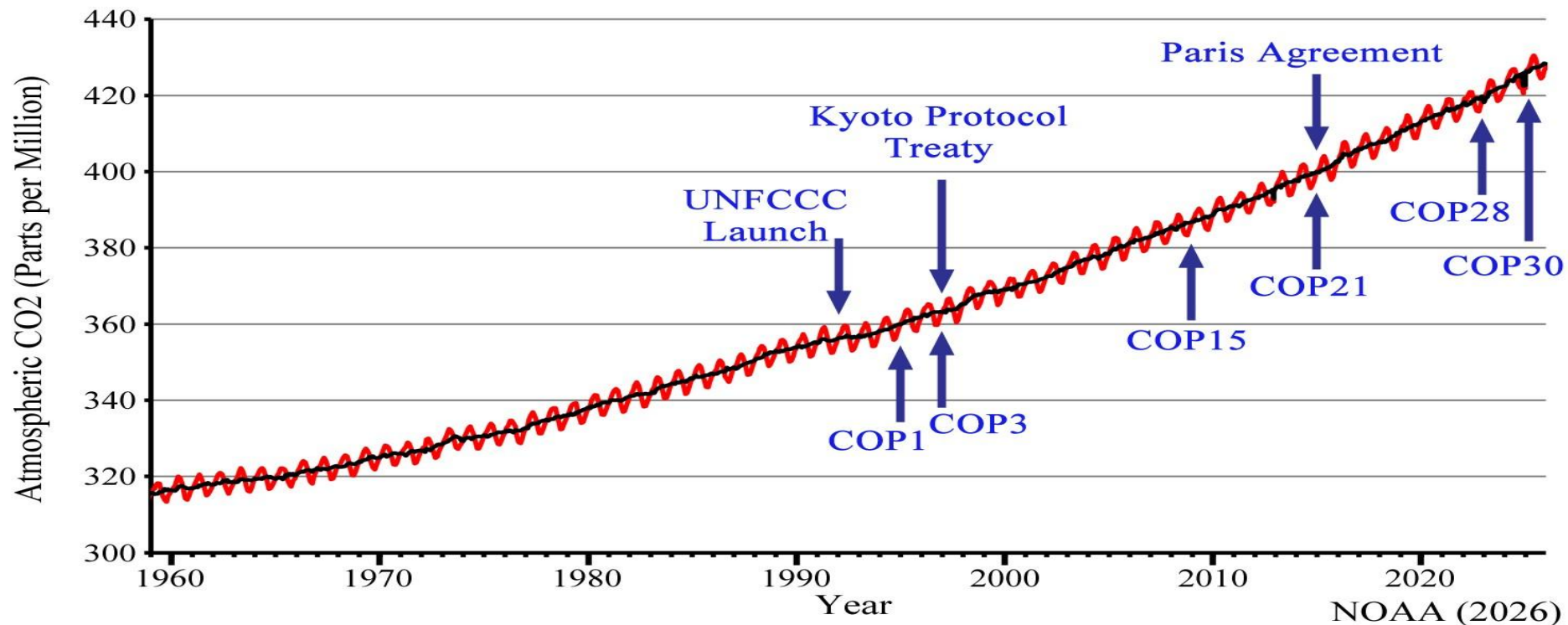
Are warmer temperatures and higher CO₂ levels causing a climate crisis?

The UN COPs 30 years of illusions without results

Climate Change and Energy: World Leaders in Turmoil

"There is no evidence that UN COP meetings and more than \$10 trillion spent on renewables over the last 30 years have affected the climate. The average atmospheric carbon dioxide [concentration](#), which is blamed for global warming, has been rising over the last 50 years without any change to the trend."

United Nations Conferences and Atmospheric CO₂ Rise



Are warmer temperatures and higher CO₂ levels causing a climate crisis?

Political reporting can be misleading

Falsified temperature records by the Netherlands Meteorological Institute

- In 2016, the Netherlands Meteorological Institute adjusted temperatures at De Bilt - the country's main climate station. Daily maximums from 1901 to 1950 were lowered by up to 1.9C, which removed 16 of 23 heatwaves from the record. The altered data were then used to claim modern heatwaves were unprecedented.
- Four researchers challenged the changes. But the institute dismissed the criticism. So the **analysis went to peer review**. In 2021, **it was published**, conclusively demonstrating the method systematically erased historical heat extremes. Today, the Meteorological Institute has quietly changed its approach and **seven erased heatwaves have been restored**.
- A government agency was caught rewriting climate history. The Netherlands Meteorological Institute erased heatwaves of the past, ignored critics, and reinstated the truth only when the evidence became impossible to ignore.
- Policies were built on that manipulated record. Dutch farmers lost livelihoods. Industry and the wider economy paid the price.

<https://x.com/i/status/2021252821425979841>

Are warmer temperatures and higher CO₂ levels causing a climate crisis?

Fearmongering shouldn't drive climate policy.

Fearmongering shouldn't drive climate policy.

Over the past half-century, environmentalists predicted countless calamities that didn't happen and pitched draconian countermeasures that turned out to be mostly misguided.

[Forests have expanded globally](#), most obviously in rich countries but also increasingly across the world.

A recent [peer-reviewed study](#) counts almost 100 doomsday predictions made by environmentalists over the past 50 years. Two-thirds predicted doom before today. **All turned out to be wrong.**

The simplistic, alarmist predictions of the 1970s set the tone for decades, however, and still echo in the climate alarmism that argues for expensive, inefficient policies by recycling many of the old scare stories of not enough food and more and more weather catastrophes. Climate change is a real challenge, but, as before, its scariness is greatly exaggerated.

[Bjorn Lomborg: Fearmongering shouldn't drive climate policy](#)

[Apocalypse now? Communicating extreme forecasts](#) by David C. Rode; Paul S. Fischbeck
[International Journal of Global Warming \(IJGW\), Vol. 23, No. 2, 2021](#)

If CO₂ is good and climate always changes, what about energy options?

Practical solutions for reliable, cost-effective electricity generation

Affordable, Reliable and Clean: A Scorecard to Assess Competing Energy Sources

- Countries need affordable and reliable energy sources to power their economy, provide prosperous personal living standards and compete with global competitors. They also want to produce and use energy sources in a clean and ecologically healthy environment. These factors are key:
 - 1) **Affordability** ensures consumers can afford the electricity needed for day-to-day lives.
 - 2) **Reliability** ensures electricity is available whenever needed.
 - 3) **Environmental impact/clean** because we all want to be good stewards of our environment
- Seven electrical generation sources. (biomass, coal, hydropower, natural gas, nuclear power, solar power, and wind power()) were analysed and scored based on these factors (**affordable, reliable, and clean energy**) resulted in the following ranking of energy options (lowest score for highest ranking)

• Natural Gas	4
• Nuclear	5
• Hydro	7
• Coal	17
• Solar	18
• Biomass	20
• Wind	24

What are the negative implications of pursuing a carbon-neutral policy?

Reducing fossil fuel usage would negatively impact third-world economy Vijay Jayaraj

Access to fossil fuel energy will greatly help 3rd world economies and lifestyles.

In the developing world, climate activism movements, often bankrolled by foreign non-governmental organizations (NGOs), have stalled critical projects across continents. These efforts ignore the human toll of energy poverty: children studying by candlelight, hospitals without power, and economies stunted by unreliable grids.

First, the developing nations should investigate the funding and motives behind climate activism. Who bankrolls these NGOs? Are their campaigns aligned with national interests, or do they serve foreign agendas?

Greenpeace International, for example, has undertaken protests of power generated by fossil fuels and nuclear reactors and of coal and aluminum mining across India, while half of India suffers from unreliable electricity supplies.

Greenpeace leadership enjoys the comfort of an industrial economy but is asking poor people in the Third World to forgo energy abundance and rely instead on useless wind turbines and solar panels and accept generational poverty for the sake of addressing a fabricated climate emergency.

What are the negative implications of pursuing a carbon-neutral policy?

Reducing fossil fuel usage would negatively impact third-world economy Vijay Jayaraj

Access to fossil fuel energy will greatly help 3rd world economies and lifestyles.

Africa, home to over 600 million people with limited access to electricity, stands at the frontline of energy deprivation. Nigeria, Angola, and Mozambique have vast natural gas reserves, yet face continual opposition from international lobbies.

In the Democratic Republic of Congo, one of the world's poorest countries, the non-profit 350Africa.org coordinated demonstrations against oil and gas exploration, mobilizing hundreds of groups. In Uganda and Tanzania, the \$3.5 billion East African Crude Oil Pipeline (EACOP), a lifeline for regional energy, has faced relentless opposition from groups like StopEACOP.

Second, governments must assert authority over energy policy, curbing local states or municipalities that align with crusades against fossil fuels. Many cities across the developing world have designated themselves as Net-Zero entities under an initiative of the World Economic Forum.

It is exasperating to see cities, still struggling to provide basic services for the health and safety of their citizens, are willing to prioritize foolish opposition to rational energy development. It is even more weird that municipal leaders would align with foreign organizations like the World Economic Forum and the United Nations in opposition to their own national interests.

What are the negative implications of pursuing a carbon-neutral policy?

Reducing fossil fuel usage would negatively impact third-world economy [Vijay Jayaraj](#)

Access to fossil fuel energy will greatly help 3rd world economies and lifestyles.

Third, legal mechanisms should be used to deter frivolous lawsuits and protests.

African nations rich in energy resources could adopt statutes penalizing activism that delays critical infrastructure without evidence of harm, mirroring the U.S. Attorney General's mandate to challenge unconstitutional state and local laws. Such measures would shift the burden onto activists to justify their claims, rather than paralyzing projects by default.

Energy security is national security, and no ideology should usurp that. From Nigeria's oil fields to India's coal mines, national leaders must dismantle efforts to stymie sensible energy use and clear a path for energy abundance and the eradication of poverty.

This commentary was first published at [Townhall](#) on April 22, 2025. [Vijay Jayaraj](#) is a Science and Research Associate at the [CO₂ Coalition](#), Arlington, Virginia. He holds an M.S. in environmental sciences from the University of East Anglia and a postgraduate degree in energy management from Robert Gordon University, both in the U.K., and a bachelor's in engineering from Anna University, India.

What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going "Carbon Neutral is significant

Global Electricity Price Comparison (Residential)

German household electricity prices are among the highest in the world, averaging around \$0.38 to \$0.40 (USD) per kilowatt-hour. This is significantly higher than the global average of roughly \$0.15/kWh, making Germany the second most expensive country in the G20 and one of the priciest in Europe.

[1](#), **Germany's household power prices 5th highest in the world – report**

[2](#), **Top 20 countries with highest electricity prices**

[3](#), **Expensive German electricity**

[4](#) **Germany is a leader in renewables, so why does it have one of the highest EU electricity prices?**

While many developing nations heavily subsidize their energy, European countries (and island territories) tend to top the charts due to heavy grid investments, geopolitical policy decisions and heavy taxation. [\[1\]](#)

Global Average: \$0.15/kWh

Germany: \$0.38 - \$0.40/kWh

United States: ~\$0.16/kWh

France: ~\$0.29/kWh

United Kingdom: ~\$0.34/kWh

India: ~\$0.07/kWh

Saudi Arabia: ~\$0.05/kWh

What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going "Carbon Neutral is significant: Recent Country actions

UK

[Reform UK will make 8 major policy changes](#)

[Britain warned of tight energy supplies this winter](#)

[News about Uk Conservative Party Position On Carbon Neutral Poli...](#)

[Kathryn Porter on the Lies of the Green Zealots](#)

<https://www.youtube.com/watch?v=8jY8k8iMrOE> Why Net Zero Is Failing Britain Kathryn Porter, Lord Frost

[The Hill published my article](#) Britain's net-zero scheme is being derailed by opposition to solar and wind projects

[Tilak's Substack | Tilak Doshi | Substack](#) Households hit with higher bills in £1bn 'racket' that sees wind farms paid to turn off power | The Independent

<https://dieterhelm.co.uk/energy-climate/british-energy-policy-not-cheap-not-home-grown-and-not-secure/>

[The Coming UK Energy Disaster – YouTube](#)

Prime Minister Keir Starmer is [reportedly preparing](#) to delay or dilute key green commitments to curb the voter revolt

[The problem with net zero konstantin kisin.](#)

"The expansion of large-scale solar farming in the United Kingdom is a policy built on selective arithmetic and seasonal blindness. It counts summer megawatts without accounting for winter silence. It presents installation costs without incorporating maintenance, degradation, replacement and disposal. It treats the loss of productive farmland as an acceptable externality rather than an irreversible cost. And now, as resistance to ground-mounted solar grows, proponents are turning to Britain's lakes and reservoirs — proposing to extend a poorly understood technology into water bodies whose ecological integrity serves far more important purposes than energy generation." *Sam Lowry*

[Net Zero and the so-called climate consensus is collapsing!](#) UK update

[Quango costs balloon amid Miliband net zero push - The Telegraph](#)

https://www.youtube.com/watch?v=Id3ziVXyQ_k

<https://www.youtube.com/watch?v=HwS3l5uP168>; What the Air Con Debate Says About Britain's Climate Insanity Konstantine Kisin

[Britain's National Security Must Not Be Sacrificed to Net Zero](#)

https://www.youtube.com/watch?v=h77C3iYX_bM

[Kathleen Stock is Right About UK's Role in Climate – But Wrong About ...](#)

What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going "Carbon Neutral is significant: Recent Country actions

USA

[In his first 200 days, Trump has overturned Biden climate agenda at breakneck speed, report shows | Just The News](#)

<https://lists.theepochtimes.com/links/lnGtCLkk1/HhryKHE6n/wjB2oNb9veRV/5MSanGiq2F>

[The Science and Environmental Policy Project \(SEPP\)](#)

[The Tide is Turning Decisively Against Net Zero](#) <https://youtu.be/xaPrKzlkWrQ>

President Trump [[SEE HERE](#)] "Withdrawing the United States from International Organizations including the UN Framework Convention on Climate Change

Bill Gates changes views on Climate Change [Prediction of Climate Catastrophe Loses Some of Its Strongest ...](#)

Donald Trump is pulling out of the UN Framework Convention on Climate Change, the IPCC and ending support and funding for net-zero campaigns and related climate bodies. <pic.x.com/XOvd6IEYk4>

[2026 02 10 WSJ Trump to Repeal Landmark Climate Finding in Huge Regulatory Rollback.pdf](#)

The 2025 Department of Energy's "[A Critical Review of Impacts of Greenhouse Gas Emissions on the U.S. Climate](#)

[EPA Retires Its Crystal Ball, Lets America Exhale \(Carbon Included\)](#) Repeal of the endangerment finding

[India Helps US Repair 'Green' Wreckage - CO2 Coalition](#)

[Trump is Right to Take On the Climate Litigation Complex](#)

[CFACT Co-Sponsors EIKE European Climate Conference Highlighting Science Over Alarmism – Climate Depot](#)

Australia

The Liberal Party has [abandoned](#) the promise of net-zero in 2050, and will instead prioritize lower energy prices.

General CO2 reductions by countries <https://financialpost.com/opinion/uk-net-zero-revolt-wake-up-call>

Across the world, politicians are facing up to the high costs and tiny climate returns of raising energy prices. Net zero is on its way out

<https://financialpost.com/opinion/uk-net-zero-revolt-wake-up-call>

[Australia's Green Hydrogen Dream Collapses - Watts Up With That?](#)

[Aussie Coal Plants to Stay Operational Thanks to a "Souring" Renewable Investment Environment](#)

Canada

[From the Strait of Hormuz to Cuba, Net Zero is Dying – Mark Carney ...](#)

General CO2 reductions by countries <https://financialpost.com/opinion/uk-net-zero-revolt-wake-up-call>

Vietnam

[Vietnam Plugs In](#) Coal fired electricity drives significant economic growth

What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going "Carbon Neutral is significant: Recent Country actions

EU

The delusional EU believes it can wield carbon tariffs as weapons. <https://tilakdoshi.substack.com/p/europes-days-of-carbon-colonialism>
Trump's UN speech Sept 23, 2025 <https://www.facebook.com/share/r/1CjCaLJuja/?mibextid=wwXlfr>
More from Trump's UN speech Sept 23, 2025 <https://www.facebook.com/share/r/1CjCaLJuja/?mibextid=wwXlfr>
[News about Sweden's Pension Disaster Rings Alarm Bells For ...](#) Sweden's 'new green industrial revolution' is faltering
The EU is rolling back environmental laws. Its [climate promises](#) for 2040 have already been relaxed
[Germany's Economy Is CRASHING FAST — Europe's Biggest ...](#)
<https://co2coalition.org/2026/07/24/eus-pretense-of-transition-leadership-is-an-economic-loser/>

Spain

April 28, 2025: Spain suffers a major electricity blackout, raising solar power concerns

With the major source of power coming from solar panels, Spain and Portugal suffered a major electricity blackout. demonstrating the need for reliable electricity, not solar power [Spain at risk of fresh net zero blackouts](#)
[General CO2 reductions by countries](#) <https://financialpost.com/opinion/uk-net-zero-revolt-wake-up-call>

China

[Trump's Withdrawal From Collapsing Climate Narrative](#)
[China's Great Wall of Fossil Fuels | RealClearEnergy](#)
China's move to renewable power as part of their energy mix <https://youtu.be/dfSFnCSEGIU?si=YDL4WHQFnOn2ZJ7G>

Indonesia

<https://co2coalition.org/2026/06/22/what-climate-crisis-indonesia-taps-fossil-fuels/>

Italy

The Italian government approved ban on installation of new ground- mounted solar panes on productive farmlands. Numerous country actions [The climate cult's dissolution is inevitable](#) Vijay Jayaraj

Latin America

[The End of 'Green' Enslavement in Latin America - Townhall](#)

India

[India To Climate Cartel: Count Us Out - CO2 Coalition](#)
[India To Climate Cartel: Count Us Out - CO2 Coalition](#)

What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going "Carbon Neutral is significant: Recent Country actions

Japan

- In August 2025, Mitsubishi Corporation prepared to withdraw from 3 Japanese offshore wind projects off the coasts of Chiba and Akita. American-Japanese Pact Signals Ascent of Energy Realism [Read article here.](#): The agreement abandons more than a decade of energy uncertainty marked by unpredictable supply chains, unrealistic net-zero pledges and overreliance on unreliable wind and solar energy. [American-Japanese Pact Signals Ascent of Energy Realism - CO2 Coalition](#) Japan's new Prime Minister Sanae Takaichi [is prioritizing nuclear revival](#) for energy security over aggressive development of renewables. [Japan Chooses Reliable Energy Over Climate Nonsense](#)

Germany

Germany's renewable energy transition has become a policy failure, with costs spiralling. By 2020, Germany had spent [over €500 billion](#) on its green agenda, transforming it into one of the most expensive electricity markets in the world. [Household electricity prices](#) are now among the highest in Europe and the world. Energy-intensive industries are fleeing Germany. [GDP shrinking in real terms and rapid de-industrialisation](#)

Germany's far-right AfD, now leading national polls, [rails against "elitist" green burdens](#) vows to halt decarbonization [Germany's Economy Is CRASHING FAST — Europe's Biggest ...](#)

South Korea, Asia

[South Korea's Developing Net Zero Debacle - CO2 Coalition](#) The consequences will be lost jobs and factories [ASEAN Nations Return to Fossil Fuels, Back Away From Net Zero Plans](#)

Norway

[Norway Rejects Climate Orthodoxy's False Choice, Builds Wealth](#)

[General CO2 reductions by countries](#) <https://financialpost.com/opinion/uk-net-zero-revolt-wake-up-call>

[Climate Change Weekly # 578— Countries and](#)

[Norway Avoids 'Green' Energy Quicksand - Vijay Jayaraj](#)

What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going "Carbon Neutral is significant: Recent legal USA action

A US court case could upend climate change policy

- At the centre of the case is the CO₂ Coalition, a U.S.-based nonprofit group of more than 200 scientists and researchers. The organization focuses on carbon dioxide's role in plant growth, agriculture and ecosystems. It argues that higher CO₂ levels contribute to increased plant productivity and that carbon emissions produce global greening far more than global warming. That position is now at the centre of the case.
- On March 20, the coalition applied for intervenor status, which would allow it to present evidence directly to the court. Executive director Gregory Wrightstone said the scientific basis for the endangerment finding is "weaker than previously believed and contradicted by empirical data, peer-reviewed studies and research." He argues carbon dioxide is not a toxin and that rising CO₂ levels have produced measurable environmental benefits.

<https://frontiercentre.org/2026/03/28/a-u-s-court-case-could-upend-climage-change-policy/>

What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going "Carbon Neutral is significant: Recent USA action

Repeal of Endangerment Finding

- The repeal of the Environmental Protection Agency's Endangerment Finding by Administrator Lee Zeldin is cause for celebration. The basis of this wrongheaded climate regulation puts ideology ahead of science. The rule has been an impediment to economic growth, a cause of rising energy costs and a destroyer of many thousands of jobs at power plants, coal mines and manufacturing facilities.
- Since the 2009 enactment of the Endangerment Finding, its scientific underpinnings have been found to be even weaker than previously believed and contradicted by empirical data, peer-reviewed studies and research. Relying on false computer models and pseudoscience, the Obama EPA erroneously claimed that carbon dioxide and other so-called greenhouse gases threatened to overheat the Earth. The agency disregarded complexities of climate dynamics – from solar cycles to clouds to ocean currents. Also ignored were a mountain of real-world data accumulated over decades and centuries that disproves the finding that the plant food carbon dioxide is a pollutant.
- Rather than an Earth spiralling into man-made climate crises, the facts reveal that ecosystems are thriving and humanity is benefiting from modest warming and more CO₂. Forests are expanding, deserts are shrinking, agricultural productivity is expanding and drought is declining. In short, there is no climate crisis and carbon dioxide is a beneficial gas necessary for life. Statement of Gregory Wrightstone

<https://co2coalition.org/2026/06/10/climate-alarmisms-reset-and-the-policy-reckoning-it-demands/>

What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going “Carbon Neutral is significant

Europe is waking up to the follies of ‘green energy’

- JPMorgan Chase CEO [Jamie Dimon](#) says that Europe has gone from 90 percent of America’s GDP to 65 percent.
- The Wall Street Journal’s front-page story — “[Europe’s Green Energy Rush Slashed Emissions – and Crippled the Economy](#)”. “High-profile, net-zero projects are being postponed or scrapped,” impairing Europe’s ability to attract artificial intelligence and other vital economic drivers and job creators. The “green” energy shift is killing jobs and inflicting cost-of-living shocks.
- Germany now has the developed world’s highest domestic electricity prices. Britain has its highest industrial rates, and Italy isn’t far behind. Average prices for Europe’s heavy industries are twice those in the U.S. Price volatility has risen as the share of renewable electricity generation has [increased to 54 percent](#).
- Although wind and sunlight are free, [harnessing them](#) requires major infrastructure investments, including battery storage for windless and sunless periods. These additional costs are typically hidden behind subsidies and carbon taxes, but the net result is [much higher electricity prices](#), blackouts, and economic disruption.

What are the negative implications of pursuing a Carbon Neutral policy?

The cost of going “Carbon Neutral is significant

Europe is waking up to the follies of ‘green energy’

- Glass, steel, aluminum, petrochemical, and automobile manufacturing, along with other energy-intensive companies and industries, are all shrinking or being exported from Europe to the U.S. or Asia.
- Thousands of high-paying jobs are disappearing. Entire cities and regions are cascading into economic chaos. Families cannot afford proper food and heat. Elderly people often resort to [heating only one room](#) or one floor to reduce heating costs. Welfare and cold-weather support programs are strained to the limit.
- The End Fuel Poverty Coalition estimates that in Britain, living in cold homes caused nearly [5,000 excess deaths](#) during the 2022-2023 winter. People died because they were too cold and weak to survive illnesses, chronic diseases, or poor health.

[Europe is waking up to the follies of ‘green energy’](#) CRAIG RUCKER, OPINION CONTRIBUTOR – THE HILL 01/08/26

[Net zero is killing energy sector, warns union – PressReader](#)

[Net Zero is economic suicide. It must go. | Konstantin Kisin | Facebook](#)

However, “the EU continues to lock itself into ever more ambitious targets (90% CO₂ reduction by 2040 compared to 1990), while eroding its industrial base, deepening its dependence on China, and widening the gap between rhetoric and the reality of global emissions.”

[America’s Irreversible Goodbye to Climate Governance - CO₂ Coalition](#) . [Dr. Samuele Furfari](#) is a professor of energy geopolitics in Brussels and London, a former senior official with the European Commission’s Directorate-General for Energy

[The Strait of Hormuz’s Bitter Lesson for the European Union - CO₂ Coalition](#)

What are the negative implications of pursuing a Carbon Neutral policy?

Examples of the reversal of CO2 emergency initiatives

- Are early warning fears about rising temperatures misjudged? We know the planet has almost always been warmer than today. Has the initial concerns about the future been overstated. Are we now having to face a takeover by globalism? Has the climate become political ideology,
- Trump has aggressively and comprehensively [dismissed](#) climate change as a problem.
- Canada's Prime Minister Mark Carney, once one of the world's most vocal climate advocates, is [now repealing](#) his country's climate policies.
- Bill Gates circulated [a memo](#) criticizing [the climate movement](#) shifting much of his money back to public health — just four years after [publishing](#) "How to Avoid a Climate Disaster."
- Ford [pulled back](#) sharply from its EV ambitions, becoming a case study in the risks of [betting on](#) whipsawing government policies.
- Former U.K. Prime Minister Tony Blair also [issued a memo questioning](#) the political and economic wisdom of pursuing "net zero" policies as designed.
- Europe scaled back its gasoline car ban and softened climate disclosure rules, a retreat the New York Times headlined: "[Europe Begins to Tiptoe Away From Key Climate Policies](#)."
- The International Energy Agency [quietly restored](#) a more conservative base-case energy scenario that it had dropped in 2020.
- **Even Hollywood** is moving on — swapping climate angst as shown in 2021's "[Don't Look Up](#)" and 2023's "[Extrapolations](#)" miniseries, [as seen](#) in the TV show "Landman."

[What to know about the world's great climate collapse](#) Amy Harderan 13, 2026

[Europe is waking up to the follies of 'green energy'](#) CRAIG RUCKER, OPINION CONTRIBUTOR – THE HILL 01/08/26

this [article](#) about UK elite's collapsing consensus on climate change.

[Peter Clack @PeterDClack](#)

What are the negative implications of pursuing a Carbon Neutral policy?

Countries and Industries are abandoning or reducing Net-Zero commitments

Industries are abandoning their emission-reduction commitments.

- In the USA, Trump's actions include defunding climate boondoggles across federal agencies, pulling the United States out of the Paris climate agreement, withdrawing the United States from dozens of climate-monitoring and wealth-transfer organizations (most importantly the UN Framework Convention on Climate Change), and rescinding the greenhouse gas endangerment finding.
- Other countries and companies around the globe are also reducing actions related to Net-Zero. Some entities are withdrawing from their climate commitments entirely and reembracing fossil fuels. Others are reducing their emission reduction pledges, cutting funding for wind and solar, pushing out the timeline for net zero, acknowledging the continued necessity of fossil fuels, or some combination of the above.
- For example, the UN IPCC recently had its [64th meeting of the science committee](#), at which it failed, once again, to set a date for the production of the next IPCC Assessment report. A coalition including Saudi Arabia, Russia, China, India and Kenya and other nations want the timeline extended as they really don't believe climate change poses an "existential threat" to humanity.
- In another example, the German government will allow citizens to use oil and gas to heat their homes again

What are the negative implications of pursuing a Carbon Neutral policy?

Countries and Industries are abandoning or reducing Net-Zero commitments

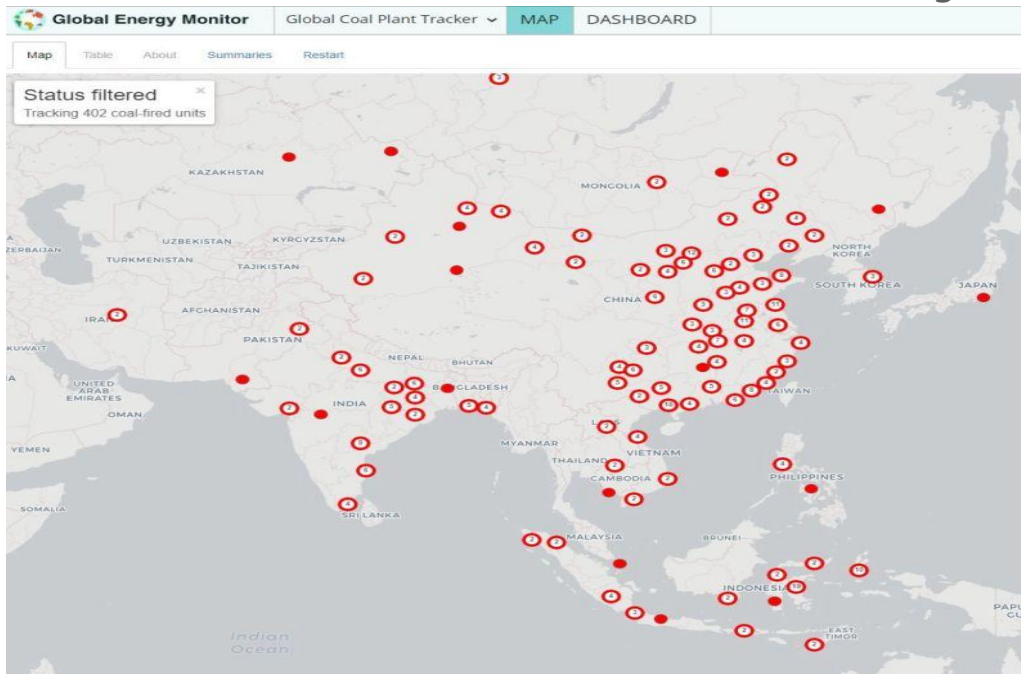
Industries are abandoning their emission-reduction commitments.

- Hundreds of banks and other companies began abandoning various UN-sanctioned or -endorsed climate groups setting reporting requirements for carbon dioxide emissions and goals for emission reductions.
- Early in 2025, [big tech companies, fearing a lack of energy for their AI hubs and server farms](#), began to embrace nuclear power, natural gas, and to a lesser extent even coal in some locations. They want whatever is needed to power the burgeoning AI industry and their tech reliably.
- The automobile and power industries have joined the move away from net zero. For example, an article at [Autoblog](#) detailed automobile manufacturers' decisions to scale back dramatically and states: "After years of rapid growth, the electric vehicle boom is hitting turbulence. With demand slowing and incentives fading, at least 18 automakers are now cancelling, delaying, or scaling back EV plans in the U.S., including major brands like Ford, Honda, Nissan, and Volkswagen. ...After growing nearly eightfold between 2019 and 2023 [due to tax incentives and mandates], demand for battery-electric vehicles flattened out last year, then took a dive off a cliff after federal tax credits phased out at the end of September."
- Oil companies and utilities are also reducing their emission-reduction goals and ratcheting back investment in the energy transition in 2025.

What are the negative implications of pursuing a Carbon Neutral policy?

3rd world countries' increases in CO₂ emissions make Canada's reductions irrelevant

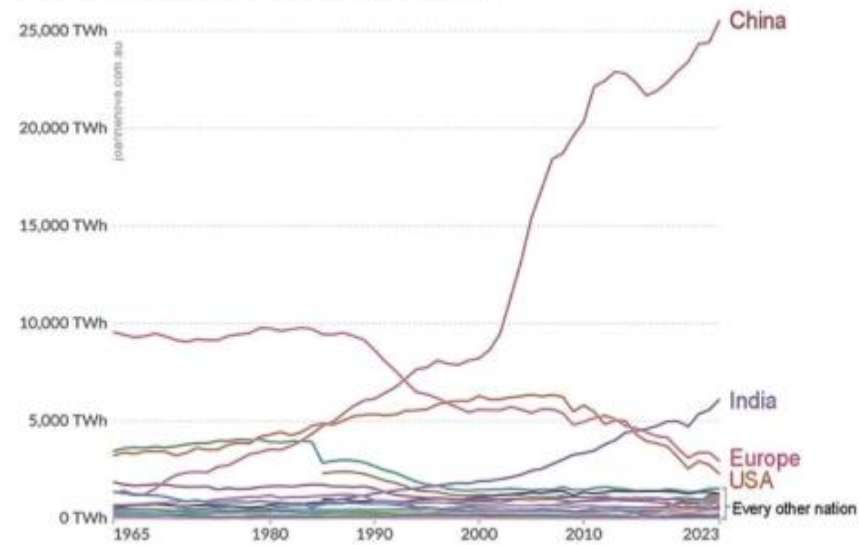
SE Asia Coal Power Plants Under Construction 2023



World Coal Consumption by Country

Coal consumption

Coal consumption by country or region, measured in terawatt-hours (TWh).



Data source: Energy Institute - Statistical Review of World Energy (2024)

OurWorldInData.org/fossil-fuels | CC BY

Other 3rd world countries are also increasing coal burning for electricity use to meet energy needs

The International Energy Agency 2022 Coal Report documented that in 2021–22 global coal demand increased 3.2% and for the first time passed 8 billion tons. Coal use in electricity generation is globally at an all-time high.

https://open.substack.com/pub/robertbryce/p/the-iron-law-of-electricity-strikes?r=ukert&utm_campaign=post&utm_medium=email

<https://www.heritage.org/global-politics/commentary/china-abandons-paris-agreement-making-us-efforts-painful-and-pointless>

<https://co2coalition.org/2024/10/14/western-households-sacrifice-as-asians-splurge-on-coal/>

[Trump's Withdrawal From Collapsing Climate Narrative](#)

What is Canada's situation and the actual impact of going carbon neutral?

Canada going "Carbon Neutral" does not make sense nor add value for money

- Canada's CO₂ emissions are just over 1% of world emissions. Even if CO₂ levels materially impact global temperatures (which is likely not the case), going "Carbon Neutral" for Canada would have only a very minimal world impact, making no difference.
- **The Government of Canada has launched the \$8 billion Net-Zero Accelerator Fund to help large emitters reduce their emissions. Plus, the Government is taxing Canadian citizens via a carbon tax. In 2023-24, the government expects the tax to raise \$5.7 billion. Is this value for money?**
- Based on recent historical trends, in the next 100 years in Canada
 - The impact of temperature changes is likely about 1 ° C (not a concern)
 - Given no material high tide rises over the last **100-plus** years, the impact of sea level rise is also likely not a concern and any potential rise can be managed.
- Is spending valuable taxpayer funds on the planned "Climate Emergency" good value for money?
- Are there better ways to help Canada than by cutting CO₂ emissions and imposing a Carbon tax? Do we want to feel good following a moral imperative that may be wrong, or do we want to effectively spend these funds in areas where funds are desperately needed and make an impact?
- The value of going "Carbon Neutral" should be in serious question. In my aforementioned separate presentation (available on request), warmer temperatures and increased CO₂ are shown to be good, not bad.
- **\$5.7 billion of funds and efforts in the Carbon Neutral initiatives should be directed elsewhere to well-defined and beneficial needs of Canadian residents. The principle of value for money spent should be upheld. The Carbon tax should be dropped.**

What is Canada's situation and the actual impact of going carbon neutral?

Canada going "Carbon Neutral" does not make sense, nor add value for money

- Dr. Richard Lindzen states "Surely, funds allocated to moving Canada to Carbon Neutral can be better spent elsewhere (adding more doctors and nurses, additional education funding"
- "CO₂ is a particularly ridiculous choice for a 'pollutant'; its primary role is as a fertilizer for plant life. Currently, almost all plants are starved of CO₂. Moreover, if we were to remove a bit more than 60% of current CO₂, the consequences would be dire: namely, death by starvation for all animal life."
- "... given the size of the energy sector, any attempt to rebuild it, however unnecessarily and ineffectively, presents immense opportunities for huge short-term profits – opportunities that are obviously tempting and strongly defended. Atop all of this has been the constant Geobellion repetition by the media of climate alarm. And this alarm is accompanied by so-called 'solutions' that deal with something, namely decarbonization, that is, in fact, largely irrelevant to climate change, while imposing great and pointless pain."
- "Indeed, rapid CO₂ emission reductions in the UK will have a negligible impact on global warming"
- "... proposed policies are harmful regardless of what one believes about the nature of climate change. My point is that this is doubly true if the underlying premise concerning the role of greenhouse gases is wrong."

Reference: Dr. R Lindzen <https://wattsupwiththat.com/2022/12/04/mit-climate-scientist-dr-richard-lindzen-rejects-climate-change-as-a-quasi-religious-movement-predicated-on-an-absurd-scientific-narrative/>

There are significant challenges for Canada to achieve net zero in a reasonable time.
https://youtu.be/nLm1_a_JF6Q?si=lvLFVFIhnql4IYSI

Global Warming and CO₂

Quote from Thomas Drolet

“Two prevalent myths are damaging our economy and hurting the less fortunate:

- 1) that greenhouse gases, chiefly carbon dioxide, are causing dangerous global warming; and
- 2) that wind and solar can easily replace fossil fuels, nuclear, and hydro in electricity generation.

Both are false yet widely accepted. ”

Stop scaring our children

Thomas S. Drolet has had a 57-year international career in many phases of Energy, including Nuclear Power, Fusion Power, Nuclear Fuel Supply, major projects in Coal, Natural Gas, Distributed Generation, Oil and other Renewables (Geothermal, Hydroelectric, Solar and Biomass). He has advised on a variety of management and energy-associated issues.

[A Generation of Kids Thinks They Have No Future. Science Just ...](#)

Global Warming and CO₂: The Science

Evaluation Results of Eleven Relevant Questions with research pages referenced

1) Is present Global Warming a crisis or a natural phenomenon?

Answer: Global Warming is a natural phenomenon

Present temperature changes are not different from historic temperature changes and the earth is now in one of the coldest periods in its history. There is nothing unusual in today's warming.

2) Are warmer temperatures and higher CO₂ levels causing a climate crisis?

Answer: No, warmer temperatures and CO₂ levels are not causing a climate crisis

Forest fires, hurricanes, tornadoes, heat waves, droughts and other weather-related concerns have not increased with recent higher CO₂ and temperature levels.

3) Are higher CO₂ levels and warmer temperatures good or bad?

Answer: Higher CO₂ and warmer temperatures are good for humans and plants

Plants and crops benefit and grow better with higher CO₂. Mankind has also done better under higher temperatures.

4) Are CO₂ atmosphere levels dangerously high or historically low?

Answer: CO₂ levels are at historically low levels when viewed over geologic time

CO₂ levels have been dropping over the last 150 million years to a recent low of 180 ppm; a further drop of only 30 ppm would have ended all plants and therefore all life on Earth. With mankind's added CO₂ emissions, today's CO₂ level rose to about 415 ppm, which is only 0.0417% of the total atmospheric gas. An optimum level for plants would be between 1,000 to 2,000 ppm, but for humans, serious physiological effects begin above 2,000 ppm.

Global Warming and CO₂: The Science

Evaluation Results of Eleven Relevant Questions with research pages referenced

5) What could have caused changes in CO₂ levels over geologic time?

Answer: Natural events have caused changes in CO₂ over geologic time

Cold oceans and plant life absorb CO₂ and concentrated carbon and CO₂ in limestone, coal, oil and gas deposits. Over geologic time, plate tectonics and volcanoes have added CO₂ at much higher amounts than recent mankind-induced CO₂ emissions and with no negative impact.

6) Is climate change mainly caused by mankind's emissions of CO₂?

Answer: Mankind has increased CO₂ levels, but this is not causing major climate change

Temperatures and climate changed dramatically and well before mankind's recently added CO₂ emissions. Rates of recent temperature increases, glacial retreats and sea level rise have not changed with recent increases in CO₂. During glaciation periods, CO₂ levels changed after temperature changed and therefore could not be causing these specific temperature increases. Oceans cool then absorb CO₂; oceans warm, then release CO₂. NASA states that climate change occurs because of changes in the Earth's solar orbit.

7) What is the impact of CO₂ on climate warming?

Answer: Additional CO₂ will have a very minimal future impact on temperature

Mankind added CO₂ has had an impact on temperatures but likely a minor impact overall. Major factors that impact weather and climate include Sun intensity (day and night, seasons), Sun spot activity, ocean currents, clouds, plate tectonics and volcanoes. As CO₂ concentration increases, CO₂ has less and less warming effect; adding more CO₂ has a logarithmically reduced impact.

Global Warming and CO₂: The Science

Evaluation Results of Eleven Relevant Questions with research pages referenced

8) Is sea level rise and rate of rise unusual and a major concern?

Answer: Sea level rise has not changed with higher CO₂, isn't unusual and is manageable

Sea levels have changed significantly over the Earth's entire history. Since the last glacial period, the earlier rapid rate of sea level rise has recently reduced as the majority of land ice has already melted. Societies can adapt to the present rate of sea level rise (about 20 cm per 100 years) by implementing managed retreats, accommodating coastal change and protection with sea walls, dune rehabilitation and beach nourishment. There is no evidence that reducing our CO₂ emissions will reduce sea level rise or materially impact temperature.

9) What about scientists' consensus regarding man-made Global Warming crisis?

Answer: The stated scientific consensus is false; many reputable scientists disagree

There is consensus that temperatures have been and are increasing and that mankind has increased CO₂ levels. However, there is no consensus regarding the degree to which mankind's CO₂ emissions are impacting temperatures or that this is causing a climate crisis.

10) If CO₂ is good and the climate always changes, what about other fossil fuel pollutants and alternative energy adoption?

Answer: Focus on removing the actual pollutants at refinery levels, engine combustion process levels and at coal burning sites for electricity plants – pursue economic, realistic energy transition replacement options, like small nuclear reactors, over time

11) What are the negative implications of pursuing a carbon-neutral policy?

Answer: Overall energy supply, plant life, 3rd world economies and their ability to improve, animal life and the environment (land use, etc.) are all negatively impacted.

The data supporting these findings can be seen, by questions

<https://www.dropbox.com/scl/fi/tssopkv59rmq1v5moe3/Climate-Change-Complete-version.pdf?rlkey=48uov71zw92luoiojpzjwqftm&st=ofdeqf6f&dl=0;>

Global Warming and CO₂: Conclusion

NET ZERO IS NOT THE ANSWER

Our time, money, and energy can, and should, be better spent elsewhere

THE CURRENT PATH: EXPENSIVE AND RESTRICTIVE

IS THIS THE ONLY WAY?

NET ZERO TARGET

ELECTRIC VEHICLES MANDATES

RESTRICTIONS AND BANS

COMPLICATED BUREAUCRACY

HIGH COSTS FOR HOUSEHOLDS

DIVERTING PUBLIC FUNDS

PUBLIC FUNDS

A BETTER FOCUS: PRACTICAL, LOCAL PRIORITIES



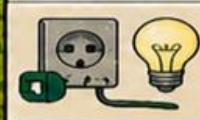
HOSPITALS AND PUBLIC SERVICES
Strong local services that people rely on.



BETTER ROADS AND INFRASTRUCTURE
Safe, reliable and fit for the future.



SUPPORT LOCAL BUSINESS AND JOBS
A stronger local economy, more opportunities.



RELIABLE, AFFORDABLE ENERGY FOR ALL
Secure energy at a price people can afford.



PROTECT WHAT MATTERS
Take care of our environment in sensible and practical ways.

WE CAN FOCUS ON PRACTICAL, LOCAL SOLUTIONS THAT IMPROVE LIVES TODAY.



REAL SOLUTIONS FOCUS ON PEOPLE, PROSPERITY AND PRACTICAL PRIORITIES THAT MAKE A REAL DIFFERENCE.

LET'S CHOOSE WISELY, LET'S BUILD A STRONGER SOCIETY



https://www.climateskeptic.org/p/the-climate-skeptic-podcast-episode-722?r=1jgxnz&utm_campaign=post;

[Climate NGOs and Foundations: The Hidden Conflicts of Interest](#)

Global Warming and CO₂

Scientific Videos Worth Watching

- 1) **Dr. William Happer** https://youtu.be/pHCCE-sw_Sc <https://youtu.be/PbIYr-KjOVY>
<https://wattsupwiththat.com/2023/09/29/professor-william-happer-ipa-lecture-the-crusade-against-carbon-dioxide-september-2023/>
[\(1106\) Elimination of CO₂ is a suicide pact – Professor William Happer on climate change misconceptions - YouTube](#)
- The world has historically had 4 to 10 times more CO₂ concentrations and is presently starved of CO₂.
- 2) **Gregory Wrightstone** <https://youtu.be/aT2SvIAkE5s>; The Climate Crisis Scam
- 3) **NASA Engineer** [\(1132\) NASA Engineer Tom Moser Reveals the Truth About Climate Science - YouTube](#)
- 4) **Dr. John Christy** Distinguished Professor of Atmospheric Science
[_11\) \(5124\) Data shows there's no climate catastrophe looming – climatologist Dr J Christy debunks the narrative – YouTube](#)
[John Christy: The Climate Real Deal | Science Matters \(rclutz.com\)](#)
- Shows there is **no climate catastrophe** associated with added CO₂ and associated climate change
- 5) **Dr. R Lindzen** [170\) Climate Science: What Does it Say? | Dr. Richard Lindzen | EP 320 – YouTube](#)
- Rejects 'Climate Change' as a quasi-religious movement predicated on an **absurd scientific narrative**
- [\(2046\) This Well Known Effect Breaks the Climate Narrative - YouTube](#)
- [\(1106\) Dr Richard Lindzen exposes climate change as a politicised power play motivated by malice and profit - YouTube](#)
- 6) **Dr. Patrick Moore** [A Dearth of Carbon? – YouTube](#) PhD in Environment Co-founder Greenpeace
- Discussion on the **positive environmental impact of CO₂**, which is the fuel of plants and life
- 7) **Dr. Steven Koonin** <https://www.youtube.com/watch?v=YXvBdwmXT2c>
- There s no apocalypse climate crisis now or in the future
- 8) Slides from the presentation: **Endangerment Finding Endangers Our Fuels, Forests and Freedom** Gregory Wrightstone Aug 2025 [SPN For Distribution 2025 08 24 \(2\).pdf](#)

Global Warming and CO₂

David Attenborough's Climate Change 2007 predictions

[David Attenborough: 'Climate Change - Britain Under Threat' 14.01.2007](#)

Predictions for 2020 proven wrong; future forecasts in serious doubt

- 1) Glaciers all around the world are in recession: **Misleading** Glacial retreat has been constant since 1825
- 2) CO₂ highest level in last 600,000 years: **Misleading** CO₂ decreasing over last 150 million years from 2000ppm to present level of 420ppm
- 3) CO₂ is a powerful Greenhouse Gas: **Misleading** CO₂ only 5% of Greenhouse Gas; Ice core data shows that CO₂ increased after temperature increased
- 4) Temperatures have been rising since the Industrial Revolution: **Misleading** as temperatures have been rising at the same rate since last glaciation period and were significantly higher in the last 10,000 years
- 5) Computer models accurately predict future climate: **False**
- 6) By 2020 significantly more floods and Scotland have more prolonged rain, more droughts and heat waves in Southern Britain: **False** Britain weather records
- 7) By 2050 temperature rising by 2.5C and 2080 by 4C: **Highly unlikely** given present trends
- 8) By 2080 sea level up by 75cm or more with a serious flooding risk: **Highly unlikely** given the present trend of 20cm/100 years
- 9) Climate Change is the biggest single issue the human race now faces: **False**, scare-mongering

See the main presentation slides for support regarding rating these claims:

<https://www.dropbox.com/scl/fi/tssopkv59rmq1v5moe3/Climate-Change-Complete-version.pdf?rlkey=48uov71zw92luoiojpzjwqftm&st=ofdeqf6f&dl=0;>

<https://www.telegraph.co.uk/news/2023/08/04/net-zeros-dam-has-burst-but-bbc-is-still-papering-over/>

Global Warming and CO₂

Reference Material

I invite you to look closer at the background reference information and analyses regarding these questions and my answers by viewing the following videos and reviewing the listed reference books.

<https://www.dropbox.com/scl/fi/tssopvkv59rmq1v5moe3/Climate-Change-Complete-version.pdf?rlkey=48uov71zw92luoiojpzjwqftm&st=ofdeqf6f&dl=0;>

Research Findings

Questions and Findings from Dr. Les Hatton

- 1) Is the current temperature rise of around 1 degree C per century unprecedented?

Answer: No. The last interglacial contained comparable rises and falls on over 250 occasions in the last 200,000 years and changes of twice this amount on 18 occasions.

- 2) Has the earth been significantly warmer in the recent past?

Answer: Yes, in the last interglacial and it had nothing to do with anthropogenic effects.

- 3) Do we have a climate catastrophe or emergency?

Answer: No. Given the number of times this has happened in the recent geological past without any help from us, it seems likely that the climate will be fine as it always has been. The current era is relatively cold and low in atmospheric CO₂, even with our efforts.

- 4) Will life be OK if there is a several degrees C rise in temperature?

Answer: Yes, because it has been before when we were much less technologically capable many years ago, the temperature climbed by 2.05 degrees C in one century and then fell by 2.41 degrees C the following century. It has however, been much more threatened by temperature falls and the ensuing ice ages in the 800,000 years, as evidenced in the Vostok ice cores.

Les Hatton Ph.D. is a mostly retired mathematician, geophysicist and computer scientist who started his career in numerical weather prediction and climatology

Reference: Climate Hysteria and Climate reality: a clash of cultures Les Hatton* Climatology and social forces
Cybershed 16-Dec-2023

231 Reference Videos – sorted by topic

i) Climate Change over time and causes of Climate Change

- 1) [Dr. Jordan Peterson: SPEAK THE TRUTH!](#)
- 2) [Graeme Phipps Climate Change Presentation](#)
- 3) [Climate Greenland Ice Research – YouTube](#) 1000 years ago was 1.5 C warmer and 2.5C warmer 4000 years ago.
- 4) <http://youtu.be/KtjeNvTwYeU> Impact of global factors on climate (eg. Nina and El Nino effects)
- 5) [Henrik Svensmark & Nir Shaviv - How the sun regulates our climate](#)
- 6) <https://www.youtube.com/watch?v=ftaUJg-ojoo> Dr. Gregory Wrightstone
- 7) ["Stripes Across My T-Shirt."](#) Current conditions are not unusual except in being abnormally chilly.
- 8) <https://wattsupwiththat.com/2023/10/06/nothing-to-sea-here-folks/> Extreme weather discussion
- 9) <https://wattsupwiththat.com/2023/10/07/marcel-crok-speaks-in-the-danish-parliament/>
- 10) [Solar Influence on Weather and Climate | Dr. Brian ... Dr. Brian Tinsley](#)
- 11) [THE REAL CAUSE OF CLIMATE CHANGE – The Highwire with Del ...](#)
- 12) www.co2learningcenter.com CO2 Coalition Introductory Videos
- 13) [New Evidence We Are Entering An Ice Age Termination Event](#) Dr. Ben Miles
- 14) <https://youtu.be/agNX9a2vyQE?si=8dNFaujgOvYEEKGR> Ian Plimer Climate Change: The Facts
- 15) [Bing Videos](#) Exposing the Net Zero Agenda Paul Burgess
- 16) Climate The Movie <https://www.youtube.com/watch?v=A24fWmNA6IM>
- 17) <http://youtu.be/KtjeNvTwYeU> Causes of climate change
- 18) Importance of Sun on Climate [Willie Soon](#)
- 19) Milankovitch Cycles <https://www.youtube.com/embed/1Mj16tiUyl4>
- 20) [Feed | CO2 Coalition Discussion Group](#) Climate Change and Extreme Weather Events Jim Steele
- 21) [Bing Videos](#) Hunga Tunga satellite view Cause of climate change

231 Reference Videos – sorted by topic

i) Climate Change over time and causes of Climate Change

- 22) Water impact on global temperatures https://youtu.be/4swl8_4LfWc;
- 23) [Greatest Mysteries of Climate Change.](#)
- 24) [At last the answer: how much warming is natural and how much warming is from mankind?](#) Paul Burgess
- 25) <https://www.youtube.com/watch?v=YKgSJupYJAo> Climate change in Sahara desert over time
- 26) <https://youtu.be/H5doZhlB7PE?si=JaXeofrZOO2HzLVX> Dr. Richard Interview Impact of winds and polar/equator differences
- 27) [\(15583\) Quantifying CO₂ while ignoring water vapor is a GIANT scam! –YouTube](#)
- 28) ['Godzilla' El Niño could be one of the strongest ever recorded | BBC News](#)
- 29) <https://youtu.be/89o4MH79z-4> Polar shift possibility
- 30) Prof David Dilley - Imminent global cooling. https://youtu.be/DKNP_LXpoo8
- 31) [Nir Shaviv - What role has the sun played in climate change? What does this mean for us?](#)
- 32) [Looking at clouds - American Thinker](#)

231 Reference Videos – sorted by topic

ii) Claims of crisis due to CO₂-induced Climate Change

- 33) Late-season ice retention has improved drastically in the past 13 years <https://x.com/i/status/2021192423284617288>
- 34) [Dr. Patrick Moore - Carbon and Climate Catastrophe – YouTube](#)
- 35) Dr. Willie Soon [video](#) Historic CO₂ levels put in context with today's levels
- 36) Dr. Patrick Moore <https://www.instagram.com/reel/DH6NkhCKHJo?igsh=MXBsdTJ4cW53MDMoYw==>
- 37) [Data shows there's no climate catastrophe looming – ...](#) Dr. John Christy, Distinguished Professor of Atmospheric Science
- 38) www.foreignpolicyjournal.com/2016/01/01/nobel-laureate-ivar-giaever-on-climate-change Discredits claim of Global Warming as a crisis;
- 39) [Dr. Judith Curry - Bing video](#) Dr Judith Curry Discussion on Climate Change, including IPCC findings, historic development
- 40) [There's no emergency" – dissident climatologist Dr Judith Curry on climate change - YouTube](#)
- 41) <https://financialpost.com/opinion/lawrence-solomon-finally-its-safe-for-the-whistleblowers-of-corrupted-climate-science-to-speak-out>
- 42) <https://www.youtube.com/watch?v=DYWrehjaMFO> Dr. Richard Lindzen exposes climate change as a politic, profit ized power play
- 43) [Elimination of CO₂ is a suicide pact – Professor William Happer on climate change misconceptions – YouTube](#)
- 44) [Judith Curry: "Relax, there is no climate emergency!" – YouTube](#)
- 45) <https://youtu.be/KhCKYvETYDc?si=GWclipwVGiYTreDv> Jordon Peterson interview with Dr. Richard Lindzen
- 46) [Will Happer: CO₂, the Gas of Life | Tom Nelson Pod #158](#)
- 47) Alex Epstein <https://youtu.be/HWqv6RH-3WE?si=j9UvTxoGpdSi7-E8> importance of abundant, inexpensive energy
- 48) https://www.youtube.com/live/Ydl_47G8nzK?si=ZYBjf2dZEtNPV4K6 "Panel: Climate Science: the use of consensus"
- 49) [Bing Videos](#); Lord Monckton Net Zero Emissions – The Costliest Error of Physics and Economics in history
- 50) <https://www.youtube.com/watch?v=QjQupZVS-3A> Glacial retreat
- 51) <https://www.youtube.com/watch?v=ZFHHOBiUrkg> Potential motivational control factors behind the move to Carbon Neutral
- 52) <https://www.theepochtimes.com/epochtv/nobel-laureate-john-clauser-there-is-no-climate-emergency-climate-models-miss-one-key-variable-5486017>
- 53) https://youtu.be/P_nH1BAfDhs?si=OVxNpHIBiUNkX2ot 97% concensus concerns
- 54) [It Is Easy Going Green](#) The vau~~e~~ of added CO₂
- 55) https://youtu.be/oModxLDUcoc?si=gq9EgruSRWhBI_hq Net Zero is Dying Jacob Rees- Mogg
- 56) Are present CO₂ levels unusual? <https://www.instagram.com/reel/DQtkpoBjzAT?igsh=MTg5NHfHMXV5dWF6ag==>
- 57) The crisis language comes from activists and the media, not from The Science they claim to cite. <https://x.com/i/status/2023427151538835841>

231 Reference Videos – sorted by topic

ii) Claims of crisis due to CO₂-induced Climate Change

58) *Dr John Robson shows that many scientists are changing their views. [Finally, a Real Tipping Point](#)*

59) (5479) [Unsettled: Climate and Science | Dr. Steven Koonin | EP 323 – YouTube](#) Dr Jordan Peterson and Dr Steven Koonin discuss the IPCC reports

60) [Climate Change: Separating Fact from Fear | Dr Judith Curry | EP 329 – YouTube](#) Interview with Dr Judith Curry, Dr Jordan Peterson

61) <https://youtu.be/oYhCQv5tNsQ> The Great Global Warming Swindle BBC March 8, 2007

62) <https://youtu.be/pV7TZzD1N5Q> Washington Post "Global Heat Waves

63) Media misrepresentation in reporting recent climate extremes [The Inconvenient Truth About Climate Science — Steven Koonin – YouTube](#)

64) [Inconvenient Truth: 32 Climate Predictions Proven False | Facts Matter \(youtube.com\)](#)

65) <https://youtu.be/spKTb3wMmJM?si=N195b4ezUGQ3u5Ni> Dr Richard Lindzen on IPCC

66) [Inconvenient Facts: The Science That Al Gore Doesn't Want You to Know](#)

67) Interview with Matt Ridley UK Science <https://www.youtube.com/watch?v=LFPj8tNVOLQ>

68) [What's the Science Behind EPA's Proposed Rollback of Climate Regulations? | NTD](#) William Happer, Gregory Wrightstone

69) <https://x.com/i/status/2035370856583409820> 365 years of temperature data from central England, the world's longest-running climate record, show no trend

70) [Net Zero and the so-called climate consensus is collapsing!](#) UK update

71) [Nobelpreisträger John Clauser im Interview, EIKE-Konferenz Wien 2024](#)

72) CO₂ and natural disaster changes over time <https://www.youtube.com/watch?v=c8vy3Gpv9x8>

73) ['Grossly exaggerated': Media gives 'little attention' to new ...](#) Interview with Dr Steven Koonin

231 Reference Videos – sorted by topic

ii) Claims of crisis due to CO₂-induced Climate Change

- 74) Rising sea level and impact on small Islands video: <https://youtu.be/Yv83NJcmU7k>
- 75) Joe Rogan interviews with Dr. William Happer and Dr Richard Lindzen https://www.youtube.com/watch?v=Zt32chvO_iY
<https://youtu.be/6bJsWeoNjmg> <https://youtu.be/zJng54iRhCM> <https://youtu.be/mdlGiBEBaQA>
<https://youtu.be/fPWU23gzPSo> <https://youtu.be/uV61bIEEbzM> <https://youtu.be/lRWQ32FGX8o>
- 76) [Climate Change Myths Part 1: Polar Bears, Arctic Ice, and Food Shortages](#)
- 77) https://youtu.be/GctDsMw8N4Y?si=LwJTarZXSww2oh_u3 Myths on climate crisis
- 78) <https://youtu.be/X-y3-QS72QY?si=wD-EWVCITeil48-n> Investment community does not see a threat from sea level rise
- 79) https://open.substack.com/pub/public/p/scientists-deliberately-misled-public?r=qbf7&utm_campaign=post&utm_medium=web
- 80) <https://www.facebook.com/share/19rXoXP3Wa/?> No proof of CO₂ driving climate
- 81) [CO₂ Climate and the Rise and Fall of Civilizations! Climate Chronicles - CO₂ Coalition](#)
- 82) <https://x.com/i/status/2021252821425979841> The Netherlands Meteorological Institute falsely adjusted temperatures
- 83) How the Club of Rome and the WEF invented Climate Change in order to attack humanit pic.x.com/M27VcBeoEB
- 84) The crisis language comes from activists and the media, not from The Science they claim to cite.
<https://x.com/i/status/2023427151538835841>
- 85) <https://www.youtube.com/watch?v=8jY8k8iMrOE> Why Net Zero Is Failing Britain Kathryn Porter, Lord Frost
- 86) <https://x.com/i/status/2027549315586265239> The rate of sea level rise has not been changing
- 87) (15606) [Steve Gruber May 2026 – YouTube](#) Interview discussing fallacy of the Climate Crisis claims
- 88) https://www.europesays.com/videos/53223/#google_vignette Global warming saves lives Gregory Wrightstone
- 89) Marcel Crok - Why there is no climate emergency: An analysis of the IPCC AR6 report [Marcel Crok - Why there is no climate emergency: An analysis of the IPCC AR6 report](#)
- 90) [Ocean Acidification from CO₂? by William Happer](#)
- 91) [Nicola Scafetta: Impacts and risks of 'realistic' global warming projections for the 21st century](#) CO₂ represents 0.04% of atmosphere
- 92) [2026 Great Barrier Reef Statistics: They told us a fairy tale](#)
- 93) [Beyond the Narrative and Following the Data with Vijay Jayaraj | Climate Debrief](#)

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iii) CO₂ impact on climate and the world

94) <https://wattsupwiththat.com/2023/09/29/professor-william-happer-ipa-lecture-the-crusade-against-carbon-dioxide-september-223/>

The importance and impact of CO₂ Dr. William Happer

95) ["CO₂ , The Gas of Life"-Dr. William Happer – YouTube](#) Scientific consensus questions

96) www.ronaldbarmby.ca Ron Barmby CO₂ and Global Warming: CO₂ Greenhouse gas impact on global warming

• 97) [Videos of Dr. Patrick Moore - A Dearth of Carbon? – YouTube](#) The positive impact of CO₂

98) <https://youtu.be/BiKfWdXXfls> Dr. Freeman Dyson Stated views that increasing CO₂ is good

99) [Net Zero 'Slavery' EXPOSED By Local Resident – YouTube](#)

100) <https://www.youtube.com/watch?v=LYHRngcYyB8> the importance of Energy John Constable

101) <https://youtu.be/JCt2MhOzWVE?si=StLeINo6uTMDXAo6> Information on ice age

102) <https://www.youtube.com/shorts/qL3dZ5Oimiw> Gregory Wrightstone CO₂ Coalition

103) Watch an overview of Mars including temperature information [here](#)

104) Australian debate <https://youtu.be/OlgHSqIA-6o?si=uldWZe2hp-pRZN9S/>

105) [Ocean Acidification True or False - Exploding the Myth](#) Paul Burgess

106) Details on wind farms <https://youtu.be/LklUVkMPI8g?si=pwaRoMahL7WnBHl6>

107) USA: moves away from carbon-neutral policy and related initiatives <https://youtu.be/FFgdSJEhx1Y?si=iHUgK1hdAmkpsKPI>

108) UK: Reform UK Party's position also moves away from carbon-neutral policy: <https://www.msn.com/en-gb/video/news/man-made-climate-change-is-garbage/vi-AA1z94Ta?ocid=msedgntp&pc=HCTS&cvid=cfa592b2dcaf468fb1500aed4da18925&ei=11>

109) Water impact on global temperatures https://youtu.be/4swl8_4LfWc;

110) [Bing Videos](#) ElectricCars The Good, The Bad, The Ugly

111) [The Magic Trick of Climate Science. Howard Hayden, Ph.D.](#)

112) CO₂ Coalition interviews [Feed | CO₂ Coalition Discussion Group](#)

113) [NASA Engineer Tom Moser Reveals the Truth About Climate Science - YouTube](#)

231 Reference Videos – sorted by topic

iii) CO₂ impact on climate and the world

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- **Ron Barmby** Professional Engineer
- **Joe Basterdi** Professional Meteorologist
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- **Dr. Byron Caplan** professor of economics George Mason University
- **Dr John Christy** professor of Atmospheric Science and Director Earth System Science Centre Univ. of Alabama
- **Peter Clack** climatologist and researcher specializing in climate change and sea level rise
- **Roy Clark** retired engineer and climate researcher, Noble Prize for work on Climate Model Errors
- **Dr. John Clauser** [recipient of the 2022 Nobel Prize in Physics](#) ; degrees from Caltech and Columbia University.
- **Dr. Les Coleman** Engineer, distinguished academic and financial strategist in finance, risk management and sustainability
- **Dr. John Constable** Cambridge, Renewable Energy Foundation
- **Dr. Judith Curry** climatologist, former chair School of Earth and Atmospheric Sciences at the Georgia Technology.
- **Dr Adrian Demaid** Emeritus Professor of Engineering Open University, consulted on Sustainable Urban Development
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- **Dr Freeman Dyson** PhD math, physics, Institute for Advanced Study in Princeton.
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- **Dr Ivan Giaever** engineer and physicist who shared the Nobel Prize in Physics

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- **Walt Johnston** geophysicist
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- **Mark Gerard Keenan** researcher, author, worked with the UK Dep of Energy & Climate Change, the U. N. Economic Commission for Europe.
- **Konstantin Kisin** British political commentator, comedian and co-host of the Triggernometry podcast
- **Dr. Steven Koonin** theoretical physicist, former director the Center for Urban Science and Progress at New York U
- **Lord Nigel Lawson** British politician, journalist who served Financial Secretary-Treasurer and Secretary of State Energy

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- **Dr Richard Lindzen** (MIT) American atmospheric physicist atmosphere, atmospheric tides, and ozone photochemistry
- **Bjorn Lomborg** visiting fellow at the University of Stanford
- **Dr. Wallace Manheimer** – leading nuclear physicist
- **Dr. Euan Mearns** Geology Honorary Research Fellow at The University of Aberdeen
- **Mark Mills** Energy Expert and Senior Fellow Manhattan Institute
- **Lord Christopher Monckton** Cambridge graduate, journalist and political advisor
- **Dr. Patrick Moore** – ecologist UBC, co-founder of Greenpeace
- **Dr. Tom Moser** NASA Engineer
- **Jeremy Nieboer** Lawyer educated at Harrow School and Oxford
- **Dr. Roger Pielke Jr** Ph.D. in [political science](#), all from the [University of Colorado Boulder](#)
- **Ian Plimer** Geologist
- **Dr. Jordan Peterson** Keynote speaker, professor at U of Toronto, clinical Psychologist and author of books
- **Kathryn Porter** an independent energy consultant, Master's degree in Physics and an MBA
- **Dr. Terry Richard PhD Engineering Physics** experience in advanced technology and financial organizations,
- **Lord Matt Ridley** a science and environment writer, journalist and businessman
- **Dr. John Robson** Historian and Journalist
- **Dr. M.J. Sangster** Author of The Real Inconvenient Truth: It's Warming, but It's Not CO₂
- **Dr. Lars Schernikau** Commodity Trader, Energy Economist, Entrepreneur, Author
- **Michon Scott and Rebecca Lindsey** Paper of earth temperature history
- **Dr. Nir Shaviv** Professor at the Racah Institute of Physics of the Hebrew University of Jerusalem.
- **Michael Shellenberger** Environmentalist

74 Referenced Scientists, Professionals

- **Dr S. Fred Singer** Atmospheric physicist, emeritus professor of environmental science, U. of Virginia
- **Dr. William H. Smith** doctorate Princeton University, Professor of Earth and Planetary Sciences, Washington University St. Louis, Missouri,
- **Lawrence Solman** Executive director of Energy Probe an environmentalist group
- **Dr. Willie Soon** –Astrophysicist and geoscientist Center for Environmental Research and Earth Sciences
- **Jim Steele** Master's degree in ecology from San Francisco State University
- **Jesper Peder Steffensen**, Curator Niels Bohr Institute Department of Geophysics
- **Ronald Stein** Engineer, energy consultant, author on energy, environmental policy
- **Dr. Henrik Svensmark** Professor in the Division of Solar System Physics Danish National Space Institute I
- **Dr. Javier Vinos**, Researcher Howard Hughes Medical Institute, UK Medical Research Council, Spanish Scientific Research Council
- **Dr. Van Wijngaarden** is a professor in the Department of Physics and Astronomy at York University in Toronto
- **Anthony Watts** A former [television meteorologist](#) and current radio meteorologist
- **Dr. Mathew M. Wielicki** Earth Science Professor
- **Gregory Wrightstone** Geologist a Senior Fellow at the Cornwall Alliance, Executive Director CO2 Coalition
- **Professor Antonino Zichichi** holder of Italy's, Knight Grand Cross of the Order of Merit of the Italian Republic

Research Findings

Biography of Graeme Phipps compiler of this presentation material

- A professional Geophysicist/Geologist and director of 2 oil and gas companies with over 50 years experience in the International oil and gas industry. Graeme has spent 21 years as director of various companies (11 different Boards, 7 public, with roles on Audit, Reserves, Compensation, Corporate Governance, EH&S and Special Committees plus being Chairman of one public company, plus the principal of Phipps and Associates – an oil and gas consulting firm). Graeme was President of CEP International/PetroKamchatka Plc./East Siberian Plc. (2007 – 2020). In 2005, Executive VP of PetroKazakhstan to become President and CEO which was successfully sold for \$4.2B in late 2005. Exploration and International VP for Petro-Canada (2001 -2002) and VP Corporate Planning and VP Canadian Division for Nexen (1994 -2001). Graeme spent his first 20 years (1974 -1994) with Esso Resources and Exxon in technical, operational and management roles.
- Oil and gas experience in the Western Canada Basin, the Beaufort Sea area, the Arctic Islands and off the East Coast in Canada, the Gulf of Mexico USA, Yeman, North Africa, Romania, China, Gambia, Australia, Malaysia, Indonesia, Nicaragua, UK North Sea, Kazakhstan, Russia.
- Consulting and advisory experience (2002 – present) as the principal of Phipps and Associates, an Oil and Gas Executive Management consulting company, plus 5 years experience in Corporate planning: three years as VP Corporate Planning and Business Development at Nexen and two years with Exxon in their NY head office.
- Presently a director Tundra Oil and Gas Ltd and Buried Hill Serdar Ltd. and recently was a member of the Public Accounts Committee, Government of Jersey

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Introductions:

1. [*Climate Curious*](#) ([alt](#) or [here](#)), by environmentalist David Siegel: What he learned about climate change. ([This](#) is his web site.)
2. PragerU [videos on climate, energy, and the environment](#) (most of them are about five minutes long, by top experts).
3. 2018 Annual GWPF Lecture: [Global Warming For The Two Cultures](#), by Prof. Richard Lindzen.

Debates:

4. [BestSchools: Karoly/Tamblyn—Happer Dialogue on Global Warming](#), 2016-2017. An in-depth, balanced, written debate, between leading experts on both sides of the issue.
5. [The SOHO Forum](#) in Manhattan has hosted two debates between a top scientist on each side of the climate debate:
 - On April 15, 2019 [Craig Idso and Jeffrey Bennett](#) debated the question, [“Is Carbon Dioxide Endangering the Planet?”](#) (video)
 - On August 15, 2022 [Steven Koonin and Andrew Dessler debated](#) the question, [“Do We Need to Rapidly Convert to Renewables To Save the Planet?”](#) (video)
 - On October 27, 2022 the [Steamboat Institute](#) hosted [another debate between Steven Koonin and Andrew Dessler](#), this one at Oklahoma State University. They debated the question, [“Does climate science compel us to make large and rapid reductions in greenhouse gas emissions?”](#) (video) [↑](#)
6. [IQ2US Debate: Is Global Warming A Crisis?](#) (video) was a 2007 televised debate between three top climate experts on each side, which is still surprisingly timely.

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Amicus brief:

7. [Three top scientists briefed the judge on climate science](#), in the 2018 *Calif v. BP* lawsuit. It was educational for him, and it probably will be for you, too.

Physics & geophysics:

8. The warming effect of CO₂ and other so-called “greenhouse gases” is through what is called “[radiative forcing](#).” For an excellent discussion of it I recommend this [2014 UNC Physics Colloquium](#) by Princeton atmospheric physicist Prof. Will Happer.

9. Wilson, 2012, [Simple model to estimate the contribution of atmospheric CO₂ to the Earth's greenhouse effect](#).

10. Pierrehumbert, 2011, [Infrared radiation and planetary temperature](#) (and [discussion](#)).

11. In 2014, the [American Physical Society](#) held a seven hour long “[Climate Change Statement Review Workshop](#),” in which a panel of leading climate experts discussed the science of climate change, including a lot of discussion of [climate sensitivity](#). The [transcript](#) is a daunting 573 pages long, but that's double-spaced and only about 135 words per page, and it is very educational.

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How much warming are we talking about, anyhow?

The WMO estimates that since the "pre-industrial" mid-to-late-1800s (late Little Ice Age) the Earth has warmed an average of 1.15±0.13 °C. So, what is the significance of that?

12. 1°C is the temperature change you get from an [elevation change of about 500 feet](#).
13. At mid-latitudes, 1°C is about the temperature change from a [latitude change of about 60 miles](#).
14. 1°C is less than the [hysteresis](#) (a/k/a "dead zone" or "dead band") in your home thermostat, which is probably 2-3°F. Your home's "constant" indoor temperatures are continually fluctuating that much, and you probably don't even notice it.
15. In the American Midwest, farmers can fully compensate for 1°C of climate change by adjusting planting dates by [about six days](#).
16. Growing ranges for most important crops include [climate zones](#) with average temperatures that vary by tens of °C. Major crops like corn, wheat, potatoes and soybeans are produced [from Mexico to Canada](#). Compared to that, 1°C is negligible.

Sea-level rise has not significantly accelerated:

https://sealevel.info/1612340_Honolulu_thru_2025-04_vs_CO2_annot1.png/

Many sites show no detectable acceleration, and [at some sites sea-level is falling](#). The best studies of large numbers of high-quality coastal sea-level measurement records have reported detecting a negligible average acceleration of [about 0.01mm/yr²](#). If that amount of acceleration were to continue for 150 years, it would add [four inches](#) to sea-level.)

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17. www.sealevel.info (shameless promotion of my own web site -[DAB](#)).
18. [Clickable thumbnails](#) for NOAA's entire 2016 list of 375 long term trend tide stations.
19. ["Acceleration" primer](#). (Do you know how to recognize "acceleration" in a graph?)

Hurricanes & tropical cyclones are [not worsening](#):

20. [Lin & Chan \(2015\)](#), Recent decrease in typhoon destructive potential and global warming implications. *Nature Communications*, doi:10.1038/ncomms8182.
- [Klotzbach & Landsea \(2015\)](#), Extremely Intense Hurricanes: Revisiting Webster et al. (2005) after 10 Years. *Journal of the American Meteorological Society*, doi:10.1175/JCLI-D-15-0188.1.
- [Chand et al. \(2022\)](#), Declining tropical cyclone frequency under global warming. *Nat. Clim. Chang.* **12**, 655661. doi:10.1038/s41558-022-01388-4
21. [Global Hurricane Frequency graph](#) (twelve month running sums), from ClimateAtlas.com/tropical/.
22. [Global Tropical Cyclone Accumulated Cyclone Energy graph \(ACE\)](#), from ClimateAtlas.com/tropical/ (or similar but older [graph from wunderground.com](#)).
23. [Alimonti & Mariani \(2023\)](#). Is the number of global natural disasters increasing?, *Environmental Hazards*, doi:10.1080/17477891.2023.2239807. (See also these discussions of their 2022 paper: [\[1\]](#)[\[2\]](#)[\[3\]](#).)

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Reference Material Source David Burton

Tornadoes are becoming less destructive:

24. [2018 US tornadoes lowest in 65 years of record-keeping](#), by meteorologist Anthony Watts.
25. [NOAA: U.S. Annual Count of Strong to Violent Tornadoes \(F3+\), 1954 through 2014](#) (graph).
NOAA stopped updating that graph in 2015, but our friends at Heartland have extended it with 2015-2024 data:
26. [Climate at a Glance: Tornadoes](#), by [Heartland Institute](#) (graph).
27. [WoodTV: Strong to Violent Tornadoes in the U.S. Trending Downward](#), by meteorologist Bill Steffen (graph).
28. [Simmons, Sutter & Pielke \(2013\)](#). Normalized tornado damage in the United States: 1950-2011, *Environmental Hazards*, Vol. 12, No. 2, 132-147, [doi:10.1080/17477891.2012.738642](#).
29. [Zhang, et al \(2023\)](#). Time trends in losses from major tornadoes in the United States. *Weather and Climate Extremes*, Volume 41, 100579. [doi:10.1016/j.wace.2023.100579](#).

Droughts are not worsening (and [drought impacts](#) are decreasing):

30. [Global integrated drought monitoring and prediction system](#) (and graph)
31. U.S. droughts are not worsening: NOAA NCDC [U.S. percentage very wet or very dry](#) (and graph).
32. [European droughts are not worsening](#), either (and graph).

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Climate change is not worsening forest fires:

33. The main factors affecting fires are land management and [forestry practices](#).^[2] Contrary to the [shockingly dishonest propaganda](#) from some quarters (like the misnamed factcheck.org site), global warming has negligible impact on wildfires.
34. NASA satellites monitor fires from orbit, and they've [measured a decreasing trend in fires](#). NASA [reports](#) that, "...MODIS [satellite instruments have measured] a decrease in the total number of square kilometers burned each year. Between 2003 and 2019, that number has dropped by roughly 25 percent." The percentage of the globe which burns each year has been [declining since 2002](#). In 2022, the world hit a [new record-low of 2.2% burned area](#).
35. If warmer temperatures significantly worsened fire risks, then in the United States forest fires would mostly occur in the South. But [most large U.S. forest fires have been in the North](#). The [worst forest fire in American history](#) was in chilly [Wisconsin, in October, 1871](#), when CO₂ (estimated from ice cores) was only about 288 ppmv. That one fire [consumed about 1.2 million acres](#), and it is believed to have killed at least 1200 people. Many of them died of hypothermia, while trying to shelter from the fire in the frigid Pestigo River.
- Here are some additional resources on U.S. fires: ^[1] ^[2] ^[3] ^[4] ^[5] ^[6a/6b]

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Current temperatures are not unprecedented:

36. Scientists call warm periods, like the current warm period, "[climate optimums](#)." Current globally averaged temperatures are warmer than they've been in hundreds of years, but probably similar to temperatures during earlier climate optimums, like the [Medieval Warm Period](#), the [Roman Warm Period](#), and the [Bronze Age Warm Period](#). Most studies find that current temperatures are [substantially lower](#) than they were during the [Mid-Holocene Climate Optimum](#) [2] [3] [4] [5], and [several degrees below](#) what they were during warmest part of the [Eemian Interglacial](#).

Recent warming has not been unusually rapid:

37. Depending on [which temperature index you choose](#) (graph [source](#)), global temperatures are believed to have been rising at an average rate of between 0.06°C and 0.16°C per decade since 1958 (the start of the Mauna Loa CO₂ measurement record), as atmospheric [CO₂ level](#) rose from 315 ppmv to 421 ppmv. Based on the trends in temperature and CO₂ level, we could expect at most a little over 1°C of additional warming by 2100. That's a small change, and a very slow rate of change, in comparison with past natural changes in the Earth's temperatures. We know from ice core isotope analyses that over the last 100,000 years the Earth has experienced *dozens* of natural "[Dansgaard-Oeschger events](#)" (a/k/a "Greenland interstadials") in which temperatures changed at rates as rapid as [several degrees per decade](#).^{10p}

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(*Caveat:* The most rapid changes are seen in Greenland ice cores, but [Greenland's temperature changes](#) tend, in general, to be at least twice as rapid as globally averaged temperature changes, due to “Arctic amplification.”) Those much larger and more rapid (but 100% natural!) temperature changes [are known to](#) have been [globally synchronous](#), though much [less abrupt in the southern hemisphere](#). They persisted for hundreds or (more typically) thousands of years — and nobody knows with certainty why they occurred. Fortunately, those very large, abrupt temperature changes apparently did not cause mass [extinctions](#). Mankind, [polar bears](#), [pikas](#), [coral](#)^[2]^[3]^[4]^[5], and nearly every other existing species of animal and plant all survived those sharp climate changes. That suggests we needn't fear that the current (comparatively slight) warming trend could be catastrophic for them.

What about feedbacks?

38. Dozens of “[feedback mechanisms](#)” affect the Earth's climate. Some are “positive” (amplifying), others are “negative” (attenuating).

[My web page on the topic](#) includes an overview of how feedback systems work, how feedbacks are analyzed, and a comprehensive list of climate feedbacks, both positive and negative.

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What about the claimed “97% consensus”?

39. Q: [Is there a 97% consensus](#) for climate alarmism, or [did over 30,000 scientists say global warming is a hoax](#)?

A: Neither. The best evidence is that manmade climate change is real, but modest and benign. The [only consensus](#) is that emissions of so-called “greenhouse gases” (GHGs) help warm the Earth. There's no consensus that it's harmful. A warmer climate is generally beneficial, which is why scientists call periods of warm climate “[climate optimums](#).”

Benefits of rising CO₂ levels

The [peer-reviewed scientific evidence](#) is compelling that the so-called “social cost of carbon” is negative, meaning that CO₂ emissions are net-beneficial rather than harmful ...for deserts & natural ecosystems

40) : [“Greening” the Earth](#). ...and [for agriculture](#):

41. [Carbonic Acid Gas to Fertilize the Air](#), *Scientific American*, Nov. 27, 1920.

42. The [Center for the Study of Carbon Dioxide and Global Change](#) (“CO₂ Science”) is a 501(c) (3) educational charity, dedicated to factual climate science. They maintain a huge and extremely useful [plant growth database](#), which catalogs scientific studies of the effects of varying CO₂ levels on hundreds of plants.

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43. [The CO₂ Coalition](#) is another 501(c)(3) educational charity, with a powerhouse board of scientific experts, dedicated to promoting scientific accuracy about the effects of CO₂ emissions. They have a wealth of excellent information, like [this report about a new study showing that the “social cost of carbon” is negative](#). (Note: I am a member. -[DAB](#))
44. [The Global Warming Policy Foundation](#) (GWPF) is a UK educational charity and think tank, with a prestigious [Academic Advisory Council](#), focused on analysis of climate-related public policies and their economic and environmental implications. They've produced a superb series of in-depth [reports](#) (like [this one on The Good News About Carbon Dioxide](#)), shorter [briefing papers](#), [reports](#), [notes](#) and [lectures](#).
45. Increased agricultural productivity and [improved drought resilience](#) due to rising CO₂ level are helping to make [famines increasingly rare](#), for the first time in human history (see [bar chart](#)). That's a very, very Big Deal. Famine used to be a scourge comparable to war and epidemic. For comparison: COVID-19 has killed about 0.1% of the world's population (so far), WWII killed 2.7% of the world's population, and the catastrophic 1918 flu pandemic killed about 2%. But the [nearly-worldwide drought and famine of 1876-78](#) killed about 3.7% of the world's population!
46. One of the [fathers of modern climatology](#) was the great Swedish scientist and Nobel laureate, Svante Arrhenius. He was the first person to quantify the warming effect of

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mankind's CO₂ emissions, and he correctly predicted that it would benefit agriculture. He even [predicted](#) what is now called "polar amplification." In a [1908 book](#) he [wrote](#), *"By the influence of the increasing percentage of [carbonic acid](#) in the atmosphere, we may hope to enjoy ages with more equable and better climates,... when the earth will bring forth much more abundant crops than at present, for the benefit of rapidly propagating mankind."*

Ten top climate blogs:[†]

47. [Watts Up With That](#) ("WUWT"), by Anthony Watts....For in-depth analysis
48. [Climate Etc.](#) by Judith Curry.
49. [Roy Spencer](#).
50. [Climate Audit](#), by Steve McIntyre.
51. [Andy May](#).
52. [Jo Nova](#)....and, for balance, the four best alarmist blogs:
53. [Moyhu](#), by Nick Stokes.
54. [Science of Doom](#), by Steve Carson.
55. [All Models Are Wrong \(but some are useful\)](#), by Tamsin Edwards.
56. [Protons for Breakfast](#), by Michael de Podesta.

Want more? [long list of climate blogs and other useful sites](#), and [Quora Answers on climate change](#)

Sea Level info: https://sealevel.info/1612340_Honolulu_thru_2025-04_vs_CO2_annot1.png