

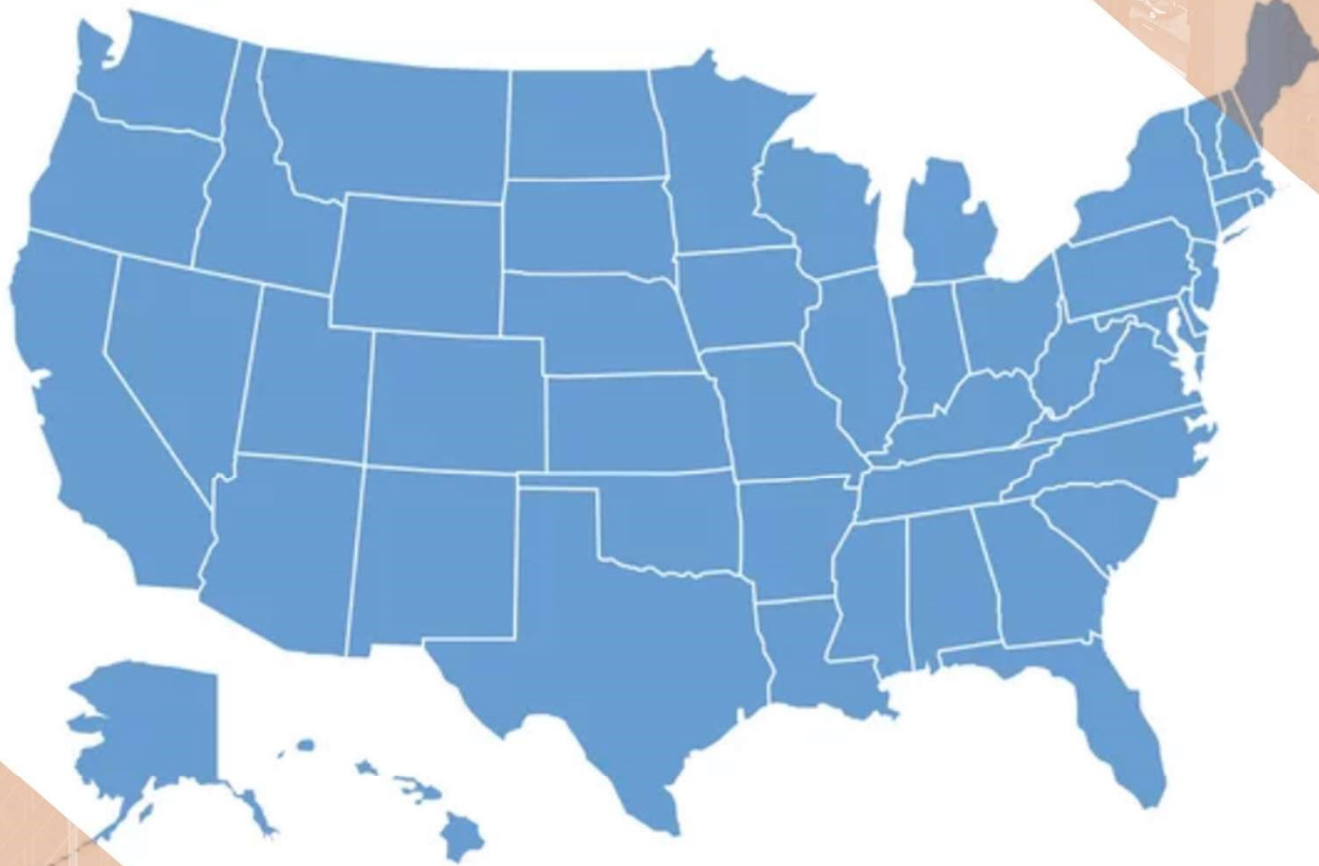


Play "Same Boat" Video



# Boat #3... "Earth"

AMCA 2024 Annual Meeting



## **Boat #2...“Country”**

AMCA 2024 Annual Meeting

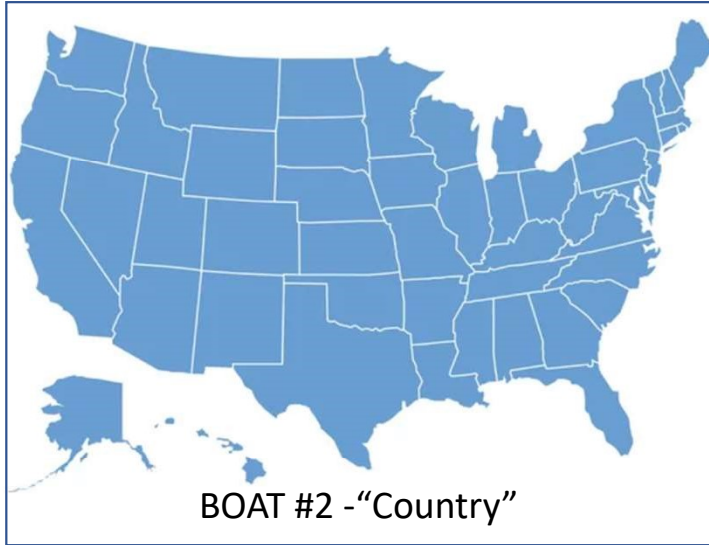


## Boat #1... "Family and Society"

AMCA 2024 Annual Meeting



BOAT #3 - "Earth"



BOAT #2 - "Country"

**We cannot address the concerns of Boat #3 without addressing the concerns of Boat #2 and Boat #1 first!**



BOAT #1- "Family & Society"



**The “ASSOCIATION” is part of Society!**



# Words Matter!

be·yond

/bē'(y)änd/

## *Preposition*

1. at or to the further side of.
2. happening or continuing after.

## *adverb*

1. at or to the further side of something.
2. to indicate a quality surpassing that expressed.

## *noun*

**the unknown.**

# Yes, WE are ALL in The Same Boat!

This presentation is about all AMCA members going

## BEYOND *the PRESENT and the PAST*

- Our contribution to the world
- Continuing to solve Air Movement and Control challenges
  - Actively Participate in the Association, and
- Embrace Reality and act on domestic and international HVAC industry related issues for the benefit of society.





# **Moral Capitalism and The Immorality of Climate Change Hysteria**

**Anthony Rossi  
AMCA Annual Meeting  
October 2024  
Honolulu, HI**

AMCA 2024 Annual Meeting

# About Your Presenter -

- 47+ years in HVAC; Retired VP Marketing, Greenheck
  - Masters Mechanical Engineering – NJ Institute of Technology
    - Built one of the first ARI 1060 Test Chambers in the US
      - Personal AMCA Contribution – Standard 260: Dilution Blowers
      - ASHRAE Contribution: Voting member of 9.10: Lab Systems
      - Ball State University 2023 DOE Solar Decathlon
    - Adjunct Professor / Advisor, Marian University, Indianapolis, IN
      - Technical Marketing Consultant
        - Married 47 years; a beautiful wife and two beautiful daughters
        - Unapologetically Catholic
          - Political Classification: **REALIST**

By a show of hands...

(1) **How many of you are**  
**CAPITALISTS?**

(2) **How many of you believe you**  
**are MORAL?**

# AMCA is a Moral Capitalistic Association



In order to prove this, I need to define Morality and Capitalism...  
“Moral Capitalism”

# To understand Moral and Immoral Capitalism and its origin, lets travel back in time...

Way back...To the Classical period of Ancient Greece!





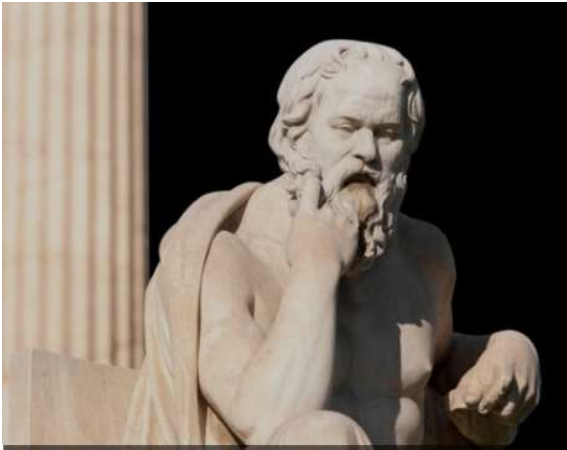
Children were taught to serve their rulers and not a higher purpose. This resulted in citizens to be enslaved by the whims of tyrants. The tyrants claimed they were the true voice of the gods.



The Greek philosophers introduced a “Liberal Arts” education and also taught their students that all humans have the capacity for evil. It was essential to immerse children in a virtuous education, offering them a chance to gain their freedom from the oppression of the tyrants.

# Socrates

469 – 399 BC



Among the first *moral* philosophers of the *ethical* tradition of thought.

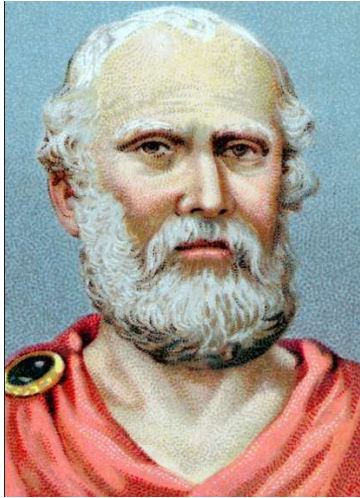
*"A system of **morality** which is **based on** relative **emotional** values is a mere **illusion**, a **thoroughly vulgar** conception which has **nothing sound** in it and is **nothing true**."*

Unfortunately, Socrates was accused by the tyrants of impiety and corrupting the youth, he was sentenced to death.



# Plato

427—347 BC



A student of Socrates

Promoted the ethics that **distinguishes justified belief (TRUTH) from opinion (perception).**

*“Things are not always as they seem; the first appearance deceives many.”*

(i.e.)

*“Things are not the way they really are; they’re the way they appear to be.”*



**Ultimately, ancient Athens became the world's first Democracy, and was continuously preserved by the subsequent generations.**

Fast-forwarding... The most significant item affecting civilization and Capitalism that occurred between Ancient Greece and the 18<sup>th</sup> Century was...

### **Establishment of The Rule of Law**

- Ancient Romans
- England

1154- King Henry II “Traveling Courts”

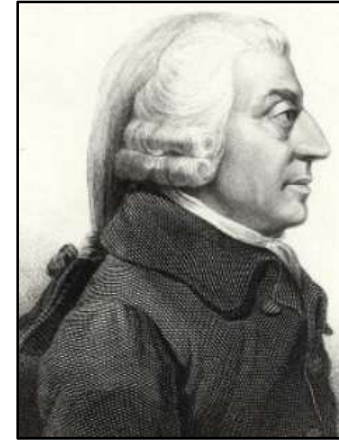
1215- King John “Magna Carta” Signed

1640 – King Charles I “House of Commons vs. House of Lords power struggle”

# Fast-forward to the 18<sup>th</sup> Century...

## Period of “Enlightenment”

**Adam Smith** (my hero) 1723-1790  
Edinburgh, Scotland



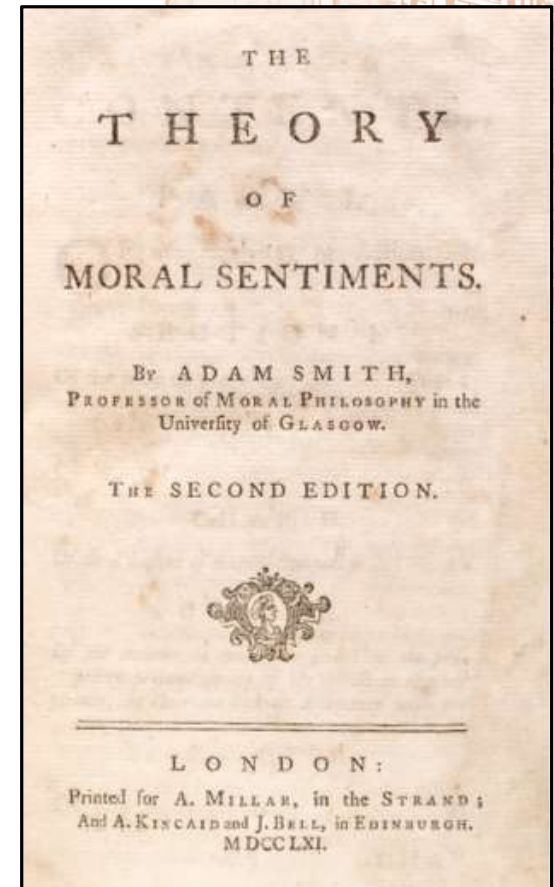
- Philosopher and economist
- Father of Modern Economics & Modern Capitalism
- A pioneer on the subject of “Political Economy”
- Responsible for: **capitalism, free markets, supply and demand**, and the **Gross Domestic Product (GDP)**!

# Adam Smith, Author, The Theory of Moral Sentiments (aka: TMS)

Moral Sentiments or 'virtues' of **“justice, prudence and self-command** are what makes society function”.

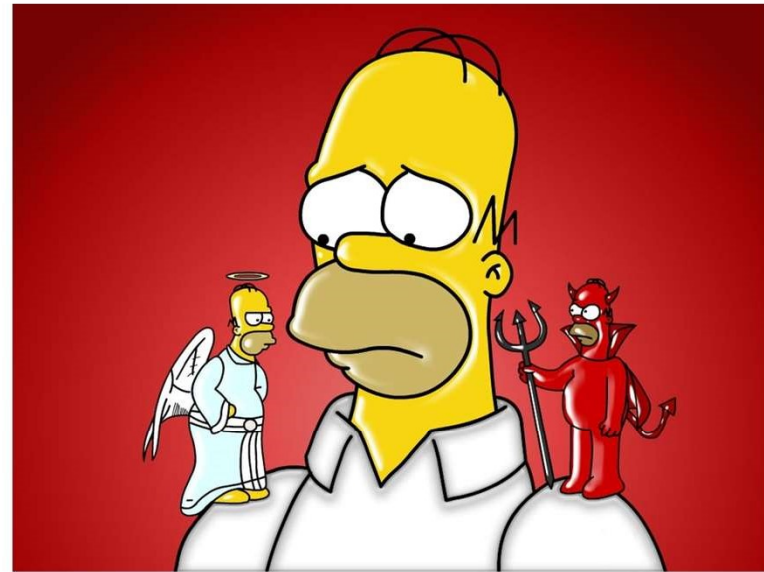


Also introduced the **“Impartial Spectator”** (one’s Conscience)... An individual’s ability to create an **imaginary third party** to **judge their own actions**.



An example of Smith's Impartial Spectator is illustrated in contemporary American Culture

Homer Simpson, illustrates The Impartial Spectator in the Episode *"That Pushy Little Weenie"*

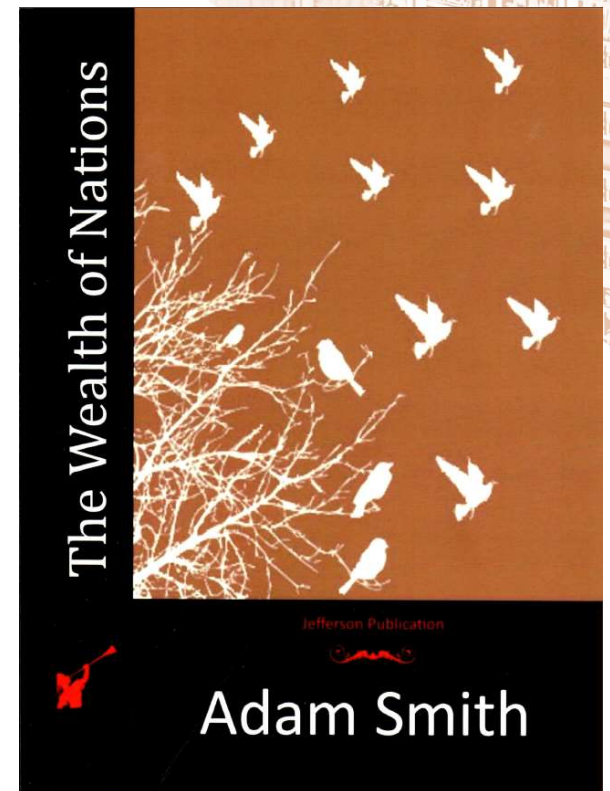


# Adam Smith, Author *The Wealth of Nations*\*

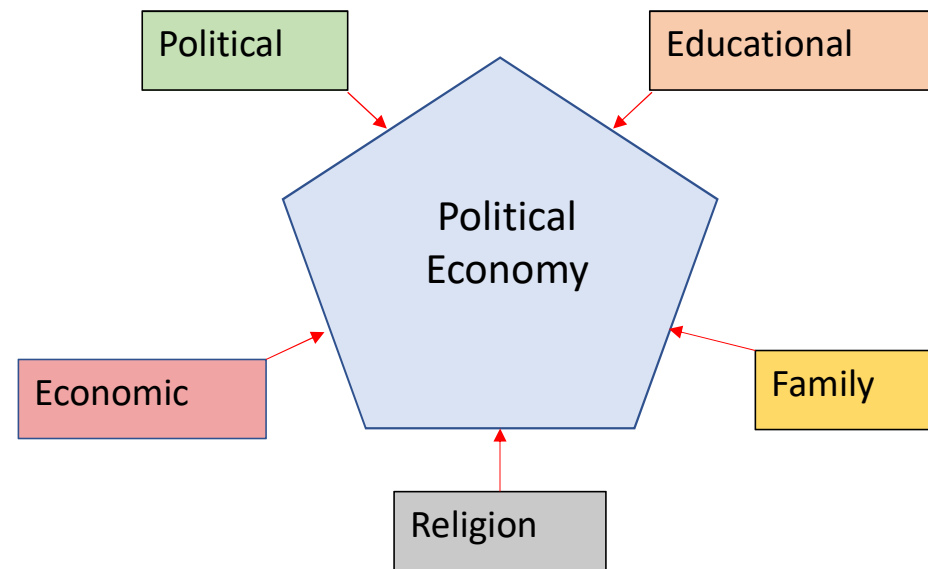
A study of *political* economics and examines exactly how nations become wealthy.

Introduces the *Invisible Hand* concept:  
“Individuals that **freely pursue their own self-interest in a free market, without government regulation, nations will prosper**”.

\*Considered his most important work and the first modern work of economics.



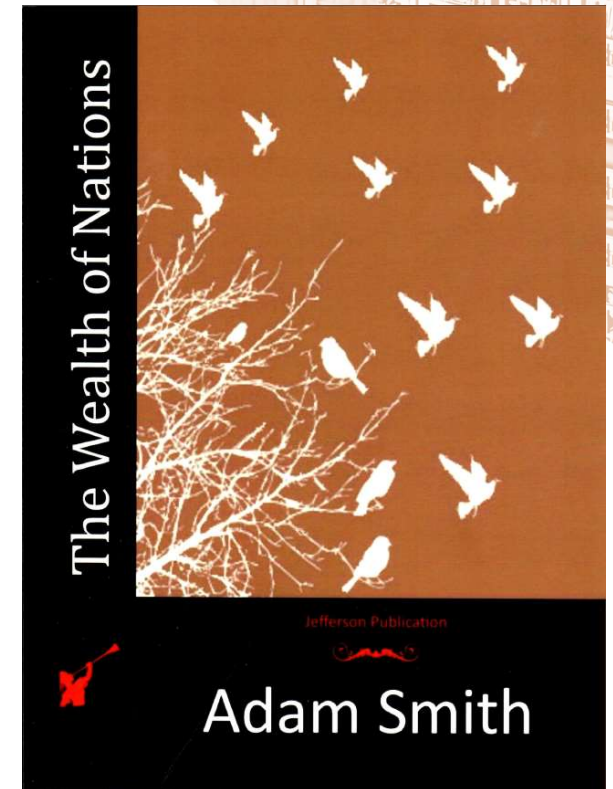
Adam Smith contributed to a study and focus on five Human Social Institutions that affect the success or failure of a Political Economy.





## *The Wealth of Nations-* Influence on the formation of the United States of America

- The Founding Fathers of the United States read *The Wealth of Nations*.
- Ben Franklin met with Adam Smith.
- In 1776, the publication of *The Wealth of Nations* was timed to seize Parliament's attention, and influence Members to support a peaceful resolution of the conflict with the American colonies.





# Personally Visiting Adam Smith's Monument in Edinburgh, Scotland

Statue / Monument is Located on the Royal Mile in Edinburgh

This vendor was selling inflated balloon animals in front Adam Smith's statue. I assumed he was an educated capitalist and I asked him if he understood Adam Smith's contribution to what he was doing. **I was wrong!**



## The Four Principles of Capitalism

1. Private Property
2. Voluntary Exchange
3. Freedom
4. Law

# Personally Visiting Adam Smith's Monument in Edinburgh, Scotland



Displaced the balloon vendor and got my picture!  
😊

# Capitalism History & Overview

In the centuries that followed, two main Political Economies emerged:

- **Capitalism**
- **Socialism**

# Capitalism

Basis of **Capitalism** is  
the *opportunity* for all  
to achieve *independent* success.  
(*not equal* success)

# Capitalism (in America)

What does the evidence show?

	<u>1800</u>	<u>2011</u>
<b>Population:</b>	5.3 million	308 million
<b>Life Expectancy:</b>	39 years	78 years
<b>Real GDP per capita:</b>	\$1,343.*	\$48,800.

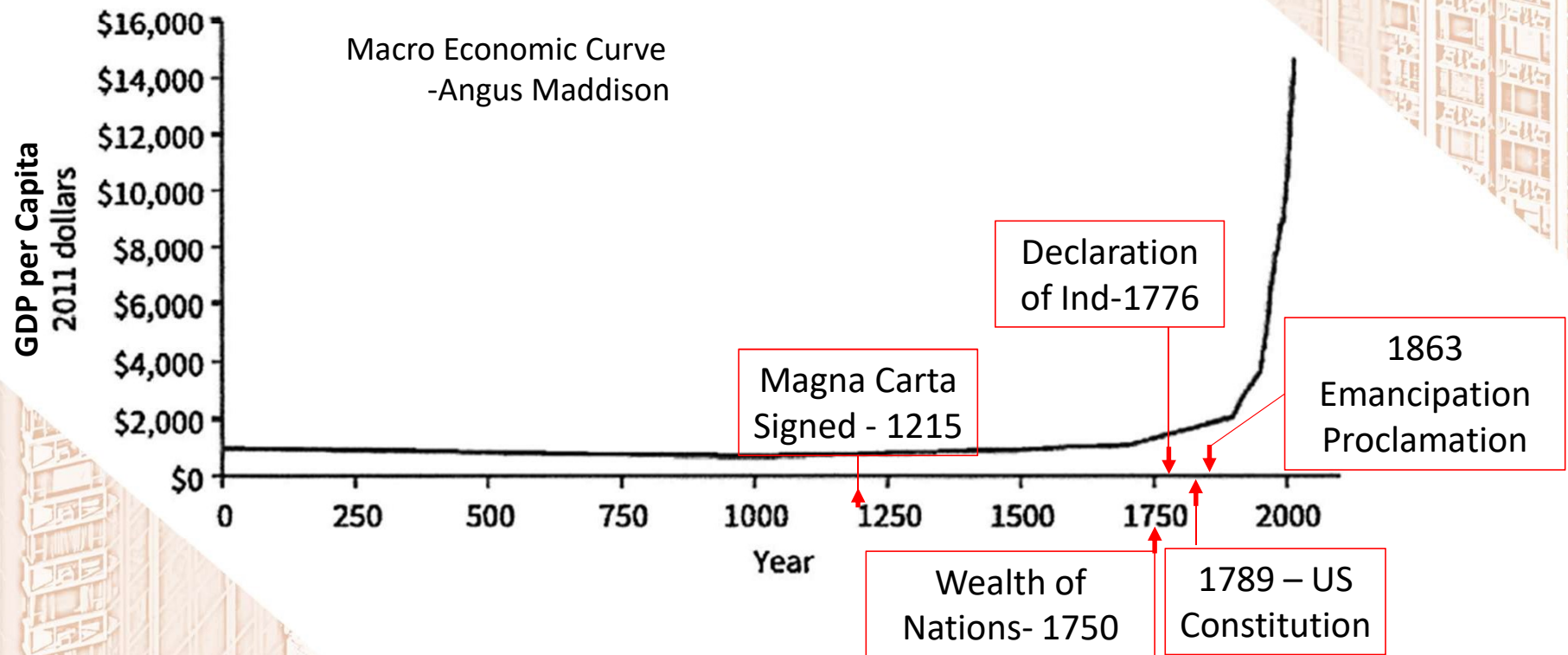
\*2011 dollars

Thus: Population increased 58-fold,  
Life Expectancy more than doubled,  
GDP per capita increased 7-fold

**Unprecedented economic growth in the history of  
humankind!**

# Capitalism (in the World)

What does the evidence show?



<https://ourworldindata.org/grapher/world-gdp-over-the-last-two-millenna> and <https://ourworldindata.org/grapher/population>

# Capitalism vs Socialism

Evidence suggests:

- A country that inclines **toward** capitalism becomes more prosperous.
- A country that inclines **away from** capitalism (toward socialism) becomes less prosperous.



# What is the Perception of Capitalism in a large segment of today's Society?

Many believe that Capitalism is *evil*  
and that "*Moral*" Capitalism is an oxymoron.

**This is not True!**

**Evil exists in the world.  
Capitalism fails due to fraud, monopolies, bailouts,  
and asset consolidation.**

Reality is...

**Our Associations are Morally Capitalistic.**

**AMCA**

**AHRI**

**HI**

**HVI**

Competitor diversity and collaboration converges on  
**profitability by doing the right things**  
for the HVAC Built Environment

# Morality of the HVAC Industry

We didn't always get it right, but we fixed it.



Introduction in 1973 of ASHRAE Standard 62 “Standards for Mechanical and Natural Ventilation”. Introduced to reduced ventilation rates of outdoor air to save energy.

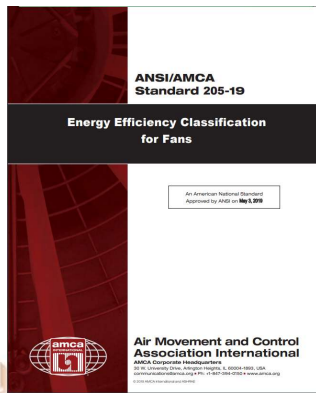
Standard 62.1 was republished in 1981 as Ventilation for Acceptable Indoor Air Quality and again in 1989, increasing ventilation rates correcting issues created in the original standard.

**Members of HVAC societies and associations spoke up about REALITY.**



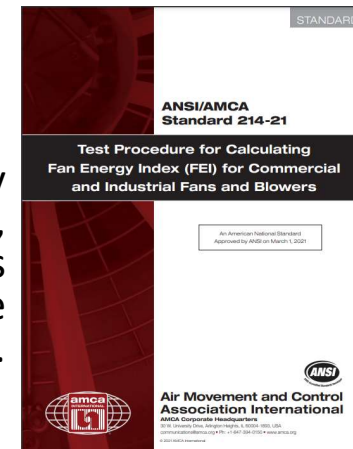
# Morality of the HVAC Industry

We didn't always get it right, but we fixed it.



In 2019 AMCA introduced the concept of Fan Efficiency Grades (FEG) in ANSI/AMCA 205 “Energy Efficiency Classification for Fans” in the interest of selecting more efficient fans to save energy.

In 2021 AMCA introduced the Fan Energy Index (FEI) (ANSI/AMCA Standard 214), replacing FEG, Clarifying that FEI ratings are true to the actual efficiency of the fan or fan system.



**Members of HVAC societies and associations spoke up about the REALITY.**

# Morality of the HVAC Industry

We don't always get it right...

## March 15, 2020 - COVID Lockdown begins...

- Masks indoors are required, but not outdoors. ( Ventilation??)
- Industry focus on recirculated filtered air; not on increased ventilation.
  - Electronic air cleaners were promoted; Hazards of ozone (O<sub>3</sub>)
  - New HVAC products were promoted with no test standards or performance certification and efficacy.

**Were AMCA / ASHRAE / HVAC Societies engaged enough, participating in solutions to the pandemic? In an IAQ / IAH crisis, what are the moral obligations of our Associations / Societies?**

# AMCA is a Moral Capitalistic Association which benefits society!

AMCA's mission is: ***To advance the knowledge, growth, and integrity of the air movement and control industry***

- **Knowledge**: Justified and true belief (REALITY) of engineering principles contributed and shared among members and stakeholders in the HVAC built environment.
  - **Growth**: Financial benefit to increase the size of the Association and that of contributing members and their companies.
  - **Integrity**: Expand Integrity in the HVAC built environment. An Association of members providing honest, factual, and moral statements about product performance which benefits society.

# AMCA's Mission and Mission Statement and the benefit to Humankind

- The Certified Ratings Program (CRP) is the cornerstone and bedrock of AMCA and AMCA's mission.
  - Without **total participation** of the AMCA members in the CRP, the mission and Mission Statement: ***“Knowledge, Growth and Integrity”*** is at risk...

The ***“value”*** of AMCA to society may be compromised.

# AMCA's Mission and Mission Statement and the benefit to Humankind

- Additionally, the **value** that AMCA and the CRP provides is efficient & economical\* allowing the industry to self regulate. (Subsidiarity).
  - ✓ Industry accepted testing standards
    - ✓ International Certified Test Labs
      - ✓ Performance ratings based upon accepted test standards
        - ✓ Industry accepted CRP

\*Lower costs for society compared to those proposed by other entities including governments.

**Legislation / Compliance is Costly!**



AMCA's Mission and Mission Statement  
benefits society and is Morally Capitalistic



For the Association to go **BEYOND**,  
**all** AMCA members  
should actively **participate, participate** in the CRP  
and **diligently promote the value of AMCA!**

## Question to Ponder...

Do HVAC Associations and Association members have a responsibility to voice their concerns regarding industry related items and issues that affect society, their country and the world?

i.e. ENERGY

# Immorality of Climate Change Hysteria

What should AMCA's role be going **Beyond**?



**This is the article that got me interested in researching what is going on with the Climate Change debate...**



The world is missing its lofty climate targets. Time for some realism

Global warming cannot be limited to 1.5°C

*“Cutting emissions will require much more money. Roughly speaking, global investment in clean energy needs to triple from today’s \$1trn a year, and be concentrated in developing countries, which generate most of today’s emissions.”*

"known unknowns" and "unknown unknowns" used in project management and strategic planning

***“There are known knowns. These are things we know that we know. There are known unknowns. That is to say, there are things that we know we don't know. But there are also unknown unknowns. There are things we don't know we don't know.”***

**-Donald Rumsfeld  
United States Secretary of Defense  
February 2002**

The background of the slide is a photograph of a library, showing rows of bookshelves filled with books. The image is oriented vertically and is partially obscured by a large white diagonal shape that serves as a background for the text.

**97% of scientists believe that the  
climate is changing.**

-Dr. Richard Lindzen, MIT, Professor of Meteorology

**Climate Change = Natural Events + Human Influence**  
(But the scientists are very divided on the causes.)

# Immorality of Climate Change Hysteria

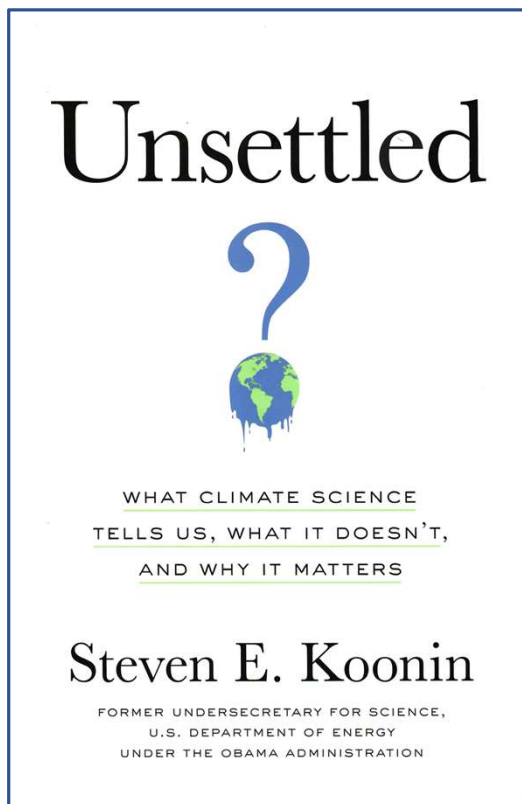
My curiosity on this subject to seek out **“Truth”**  
**(Reality vs. Opinion)** resulted in:

- Lots of research and study
  - Scientific and Economic research
    - Reading books, website content, and video lectures
      - Listening to lots of political bloviating.

(Remember, I’m retired so I could do this!)

Please allow me to share my research in what I have  
found and conclude...

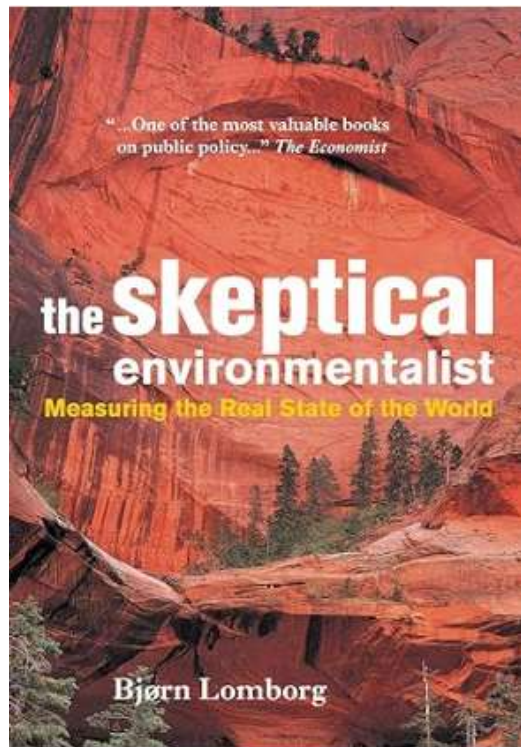
# Research – “Follow the Science”



Dr. Steven E. Koonin is a University Professor at NYU, with appointments in the Stern School of Business, the Tandon School of Engineering, and the Department of Physics. Dr. Koonin served as Undersecretary for Science in the US Department of Energy under President Obama from 2009 to 2011, where his portfolio included the climate research program and energy technology strategy. He was the lead author of the US Department of Energy's Strategic Plan (2011) and the inaugural Department of Energy Quadrennial Technology Review (2011). Before joining the government, Dr. Koonin spent five years as Chief Scientist for BP, researching renewable energy options to move the company “beyond petroleum.”



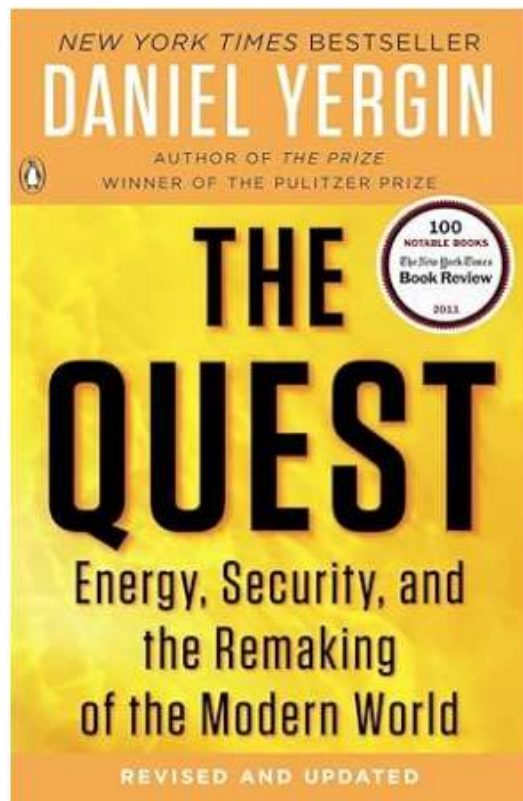
# Research - Follow the Economics



Dr. Bjorn Lomborg is a Political Scientist and an **environmentalist**. He challenges mainstream concerns about development and the environment and points out that we need to focus our limited resources and attention on the smartest solutions first.

He has a **PhD in Political Science** is a visiting professor at Business School, and **president of the Copenhagen Consensus Center** which brings together top economists, including seven Nobel Laureates, to **setting data-driven priorities for the world.**

# Research - Follow the History

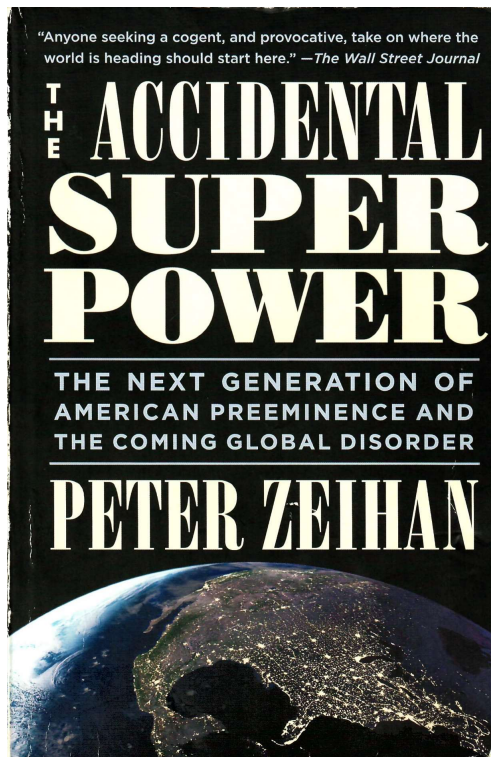


Dr. Yergin is Vice Chairman of IHS and Founder of Cambridge Energy Research Associates and serves as CNBC's Global Energy Expert.

Dr. Yergin serves on the U.S. Secretary of Energy Advisory Board and chaired the US Department of Energy's Task Force on Strategic Energy Research and Development. He is a Trustee of the Brookings Institution, on the Board of the New America Foundation, and on the Advisory Board of the Massachusetts Institute of Technology Energy Initiative.

Dr. Yergin holds a BA from Yale University and a PhD from Cambridge University in International History where he was a Marshall Scholar.

# Research - Follow the History

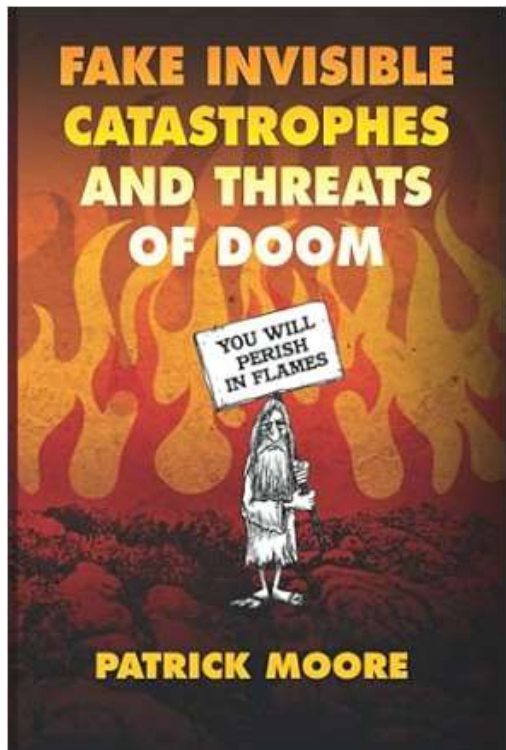


Peter Zeihan Geopolitical Strategist, and a global energy, demographic and security expert.

BS in Political Science and a postgraduate degree the University of Otago (New Zealand).

Zeihan's worldview marries the realities of geography and populations to a deep understanding of how global politics impact markets and economic trends, helping industry leaders navigate today's complex mix of geopolitical risks and opportunities.

# Research - Follow the Science



## Dr. Patrick Moore

Ph.D in Ecology, U of B.C.

B.Sc. (Honors), Biology and Forest Biology, U of B.C.

40+ years International Environmentalist

Co-Founder of Greenpeace

# Follow the Science?

The American Association for the Advancement of Science (AAAS, which has a membership of over 120,000 members) rely on assessment reports when talking about climate. They too issue reports but protocol dictates that they submit public statements for comment by their membership prior to issuing. In 2019 AAAS issued an “EMOTIONAL” report entitled “How We Respond” referencing NCA2018:

*“Our nation, our states, our cities, and our towns face an urgent problem: Climate Change. Americans are already feeling the effects...Rising Temperatures...Farmers in their fields, transit riders in their cities.*

*Across the country extreme weather events such as hurricanes, floods, wild fires and drought are occurring with greater frequency and intensity. While these problems face numerous risks to society and the planet, undoubtedly the greatest risk would be to do nothing. Science tells us that the sooner we respond to climate change the lower the risks and the costs will be in the future.*

**This Statement was never issued by AAAS to it’s membership for comment, prior to releasing.**

Unsettled, S. Koonin, Pg 23

# Emotional Hysteria

**'The world is going to end in 12 years if we don't address climate change,' Ocasio-Cortez says**



**William Cummings**  
USA TODAY

Published 9:36 a.m. ET Jan. 22, 2019 | Updated 4:23 p.m. ET Jan. 22, 2019



By 2031; 7 years left to doomsday...

# CLIMATE CRISIS!

A **moral** obligation to immediately address Climate Change (via Green New Deal) and save the world from ending by 2031

## Emotional Messaging By and Towards our Children



# Emotional Hysteria



**AMERICAN PSYCHOLOGICAL ASSOCIATION**

TOPICS      PUBLICATIONS & DATABASES      RESEARCH & PRACTICE      EDUCATION & CAREER

Home > News & advocacy > Press room > Press releases > 2023 >

Date created: October 11, 2023

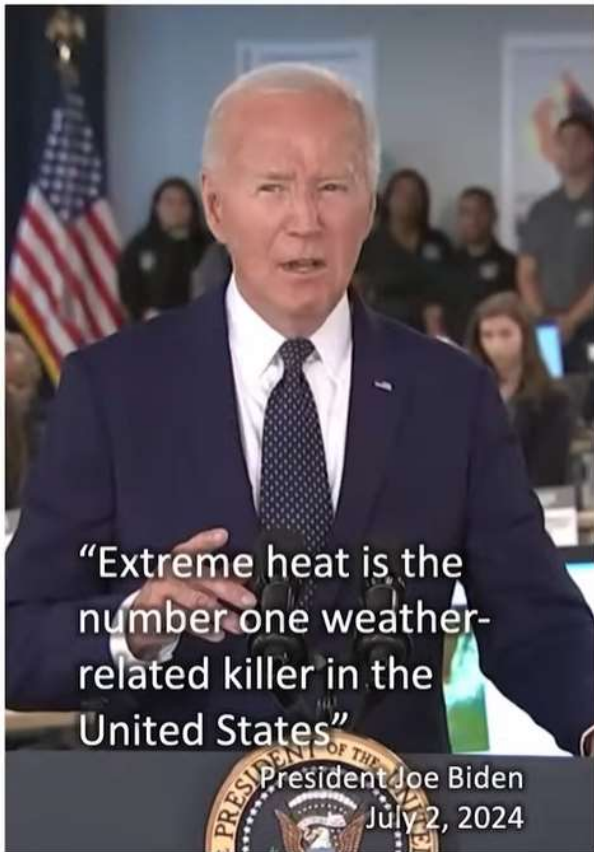
## Impacts of climate change threaten children's mental health starting before birth

Climate Change   Mental Health   Infants and Toddlers   Children   Teens

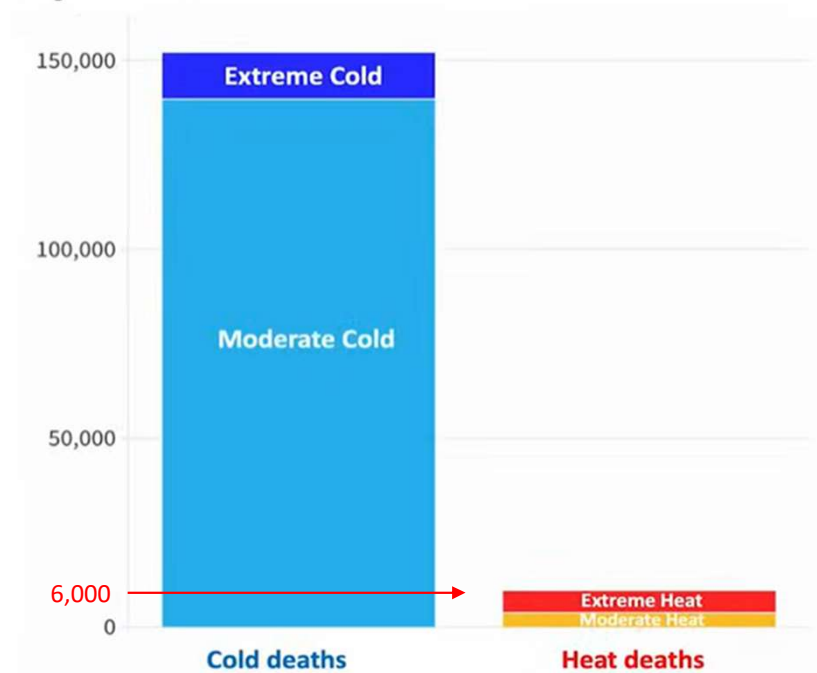
<https://www.apa.org/news/press/releases/2023/10/climate-change-children-mental-health/>  
AMCA 2024 Annual Meeting



# Emotional Hysteria



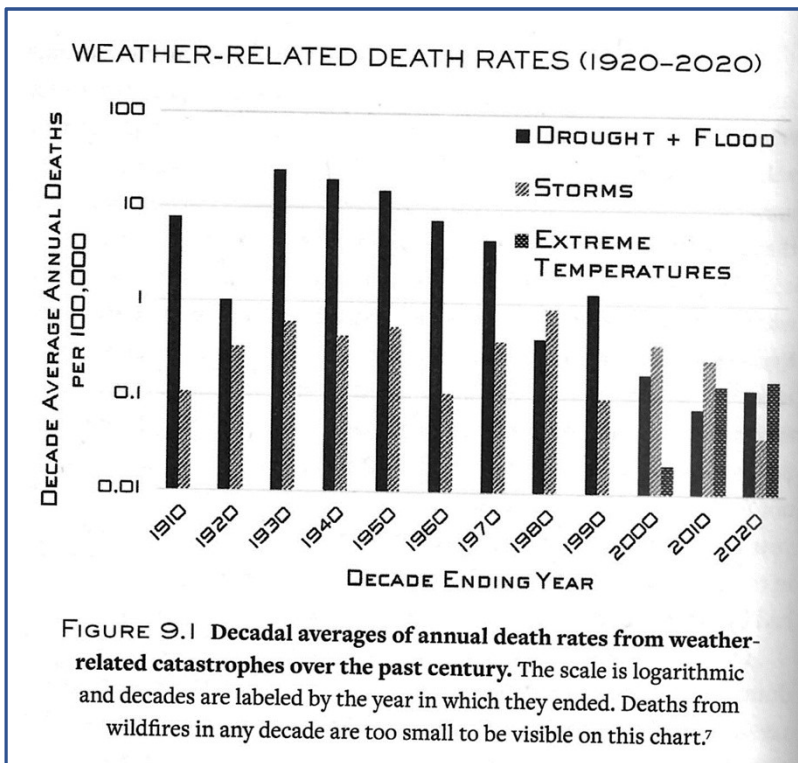
## No, it isn't



[https://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(14\)62114-0/fulltext](https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(14)62114-0/fulltext)

Bjorn Lomborg

# Apocalypses That Ain't... Climate Related Deaths



*“The media and hence popular and political opinion, attribute all manner of impending societal catastrophes to human influences on the climate, including death and destruction, disease, agricultural collapse, and economic ruin.*

*Lucky for us the historical data doesn't support such claims.”*

Unsettled, S. Koonin, Pg170

# Emotional Hysteria

*The New York Times*

## Scenes From a World on Fire

Dec. 31, 2021



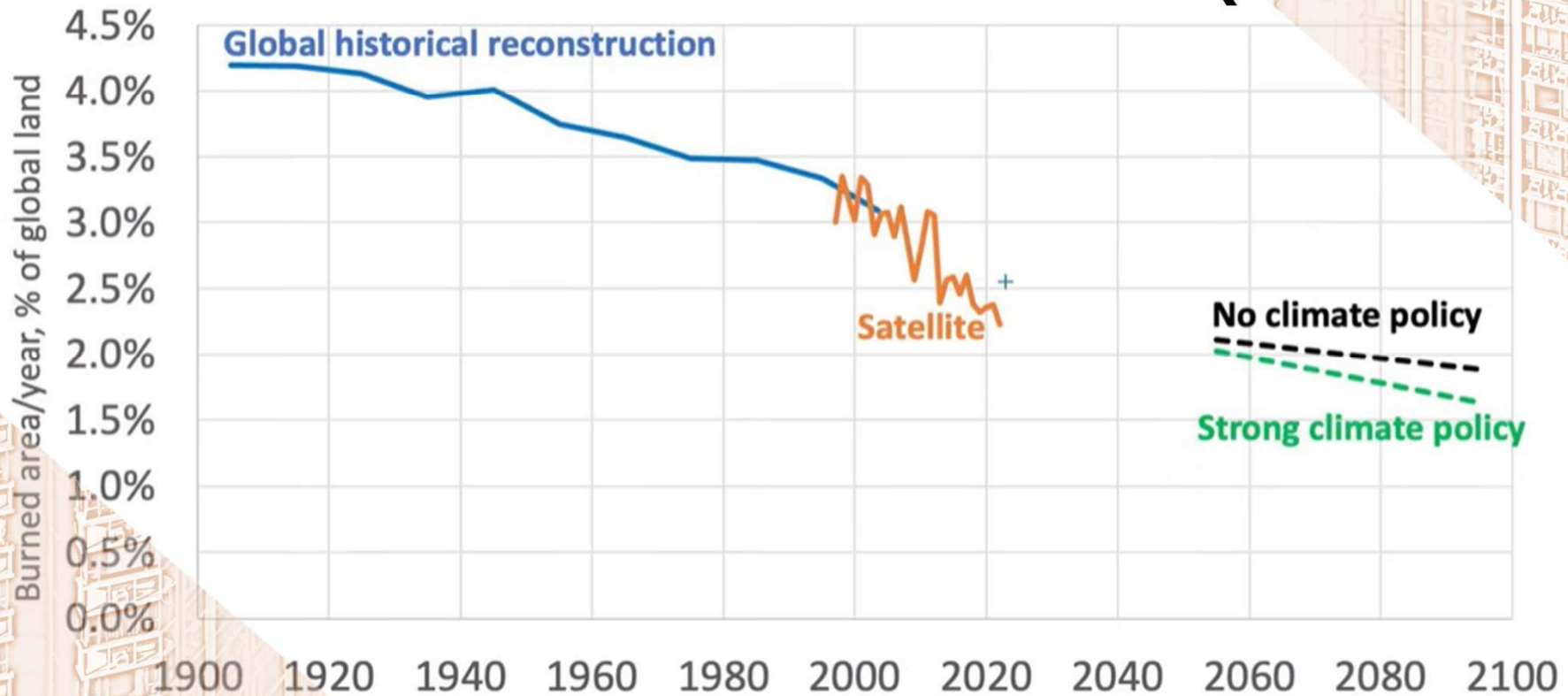
AMCA 2024 Annual Meeting

# Emotional Hysteria



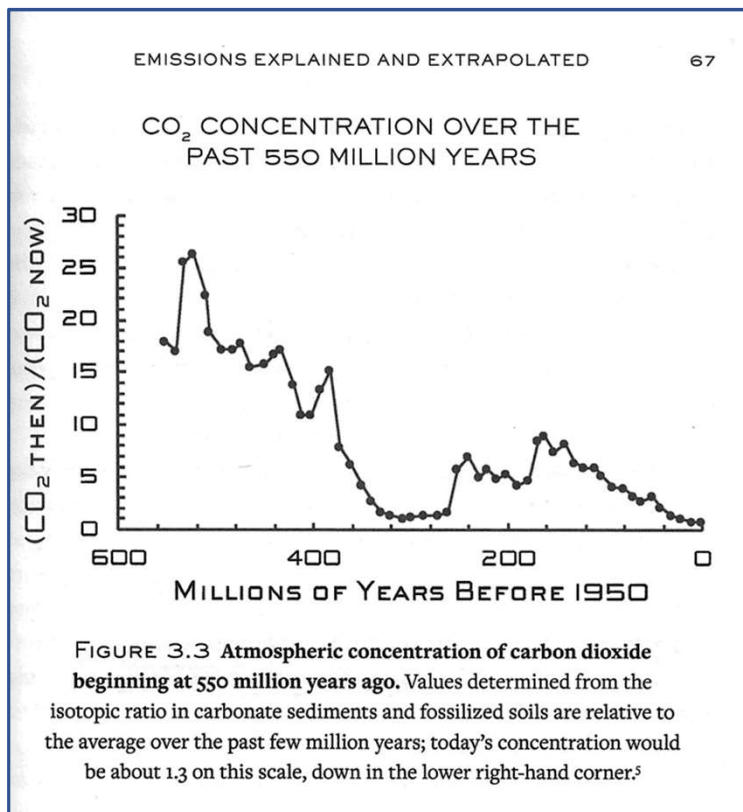
## A World on Fire Graphic

# Global fire, burned area 1900-2100 (Real Data)



<https://agupubs.onlinelibrary.wiley.com/doi/abs/10.1002/2013JG002532>,  
<https://www.sciencedirect.com/science/article/pii/S0034425718303705>,  
<https://agupubs.onlinelibrary.wiley.com/doi/abs/10.1029/2020EF001786>

# Carbon Dioxide (CO<sub>2</sub>) Levels Over The Years



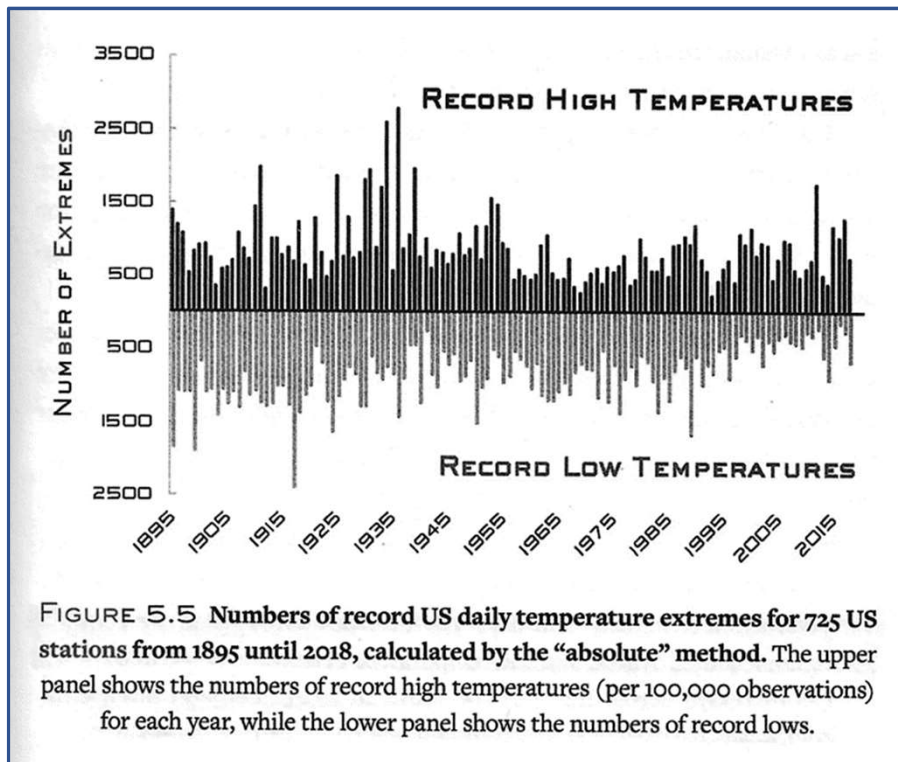
*“Only once in the geological past, 300 million years ago, have atmospheric CO<sub>2</sub> levels been as low as they are today. CO<sub>2</sub> is the single human caused greenhouse gas with the largest influence on the climate.*

*But it is of greatest concern also because it persists in the atmosphere/surface cycle for a very long time. About 60 percent of any CO<sub>2</sub> emitted today will remain in the atmosphere 20 years from now. The simple fact CO<sub>2</sub> lasts a long time in the atmosphere is a fundamental impediment to reducing human influences on the climate.*

*Just to stabilize the CO<sub>2</sub> concentration, and hence its warming influence, global emissions would have to vanish.”*

*Unsettled, S. Koonin Pg 67*

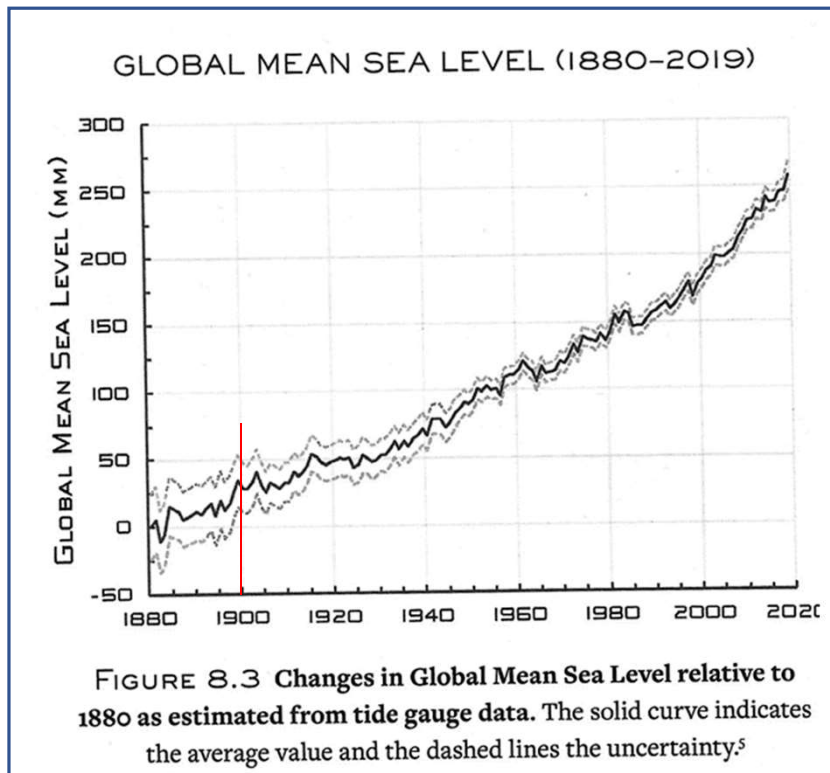
# Hyping The Heat



*“The record highs clearly show the warm 1930’s, but there is no significant trend over the 120 years of observations, or even since 1980 when human influences on climate grew strongly. These two panels together show something that is completely contrary to common perception – that temperature extremes in the contiguous US have become somewhat milder since the late nineteenth century.”*

Unsettled, S. Koonin, Pg 107

# Sea Levels Scares

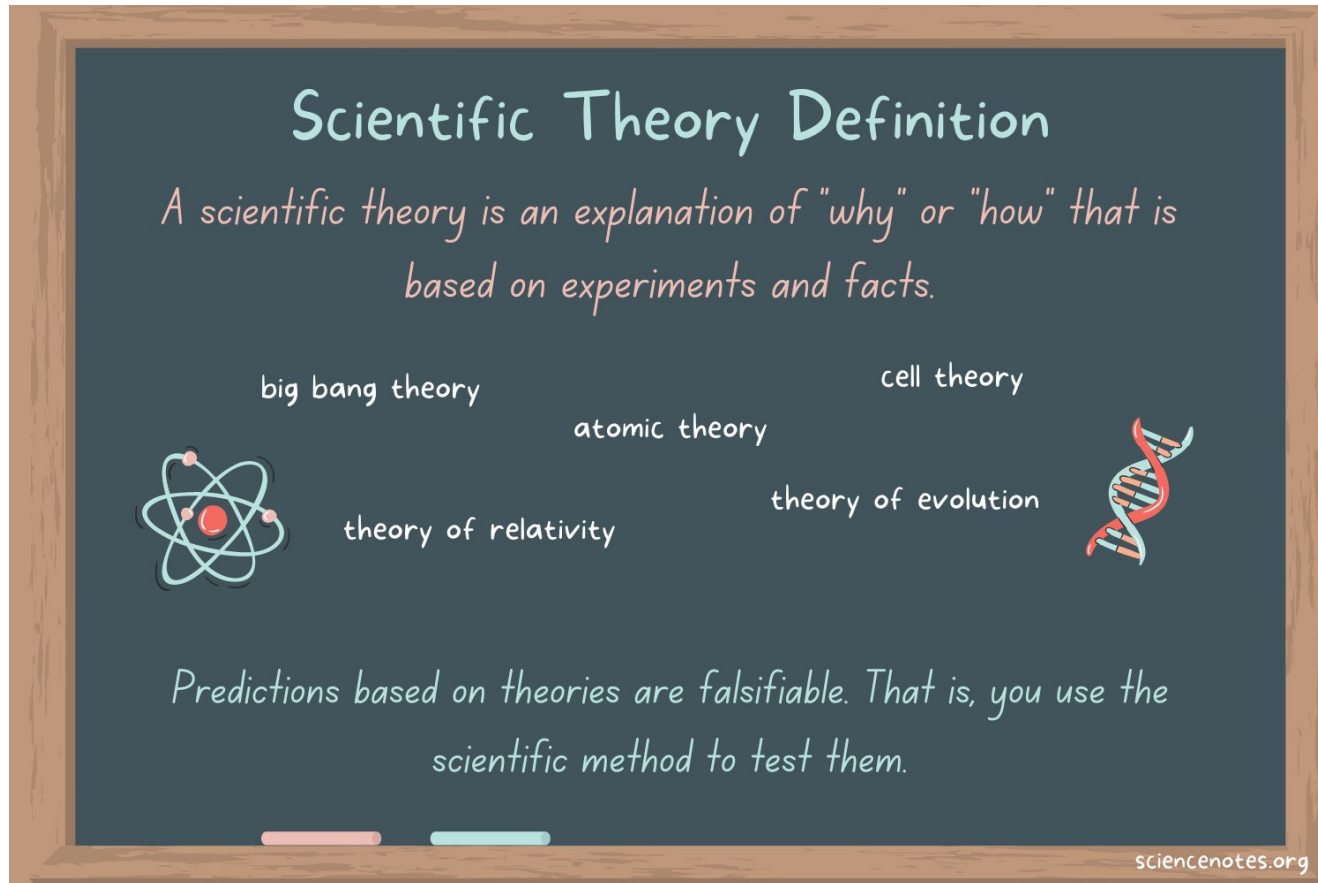


*“ Figure 8.3 shows that the GMSL was rising at the end of the nineteenth century – well before there were significant human influences on climate .”*

Unsettled, S. Koonin, Page 153



# The World Will End Due To Climate Change. A Prediction Based On? ... Computer Models?



**Scientific Theory Definition**

*A scientific theory is an explanation of "why" or "how" that is based on experiments and facts.*

big bang theory      atomic theory      cell theory

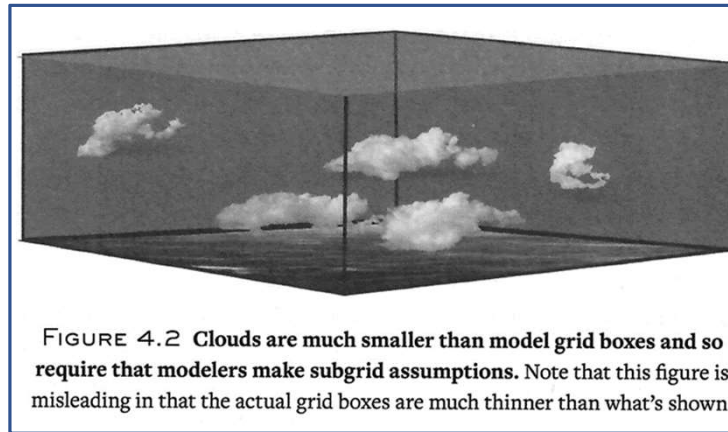
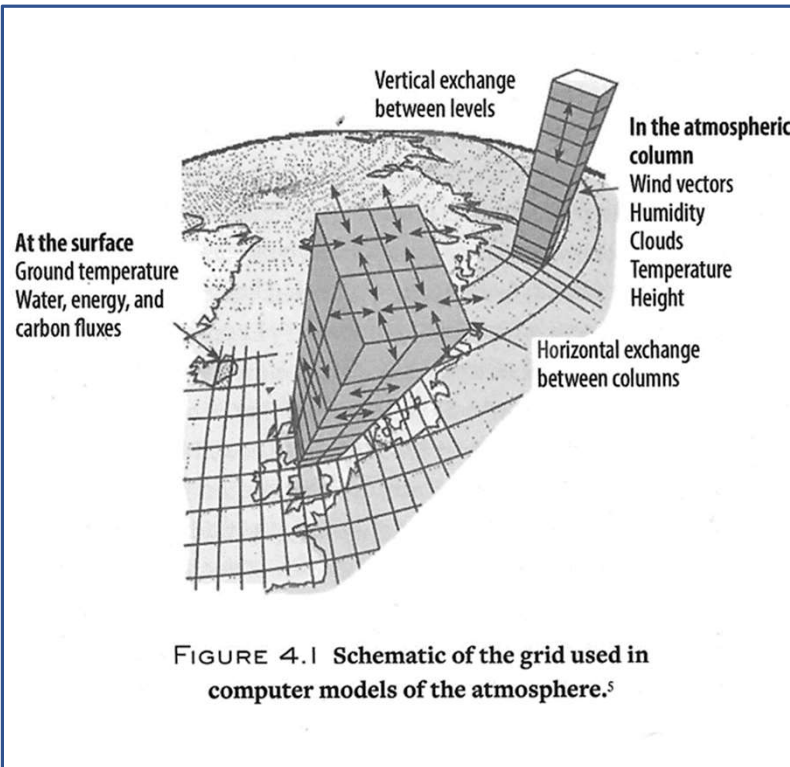
theory of relativity      theory of evolution

*Predictions based on theories are falsifiable. That is, you use the scientific method to test them.*

sciencenotes.org

Scientific theories are proven true based upon experimentation and observation.

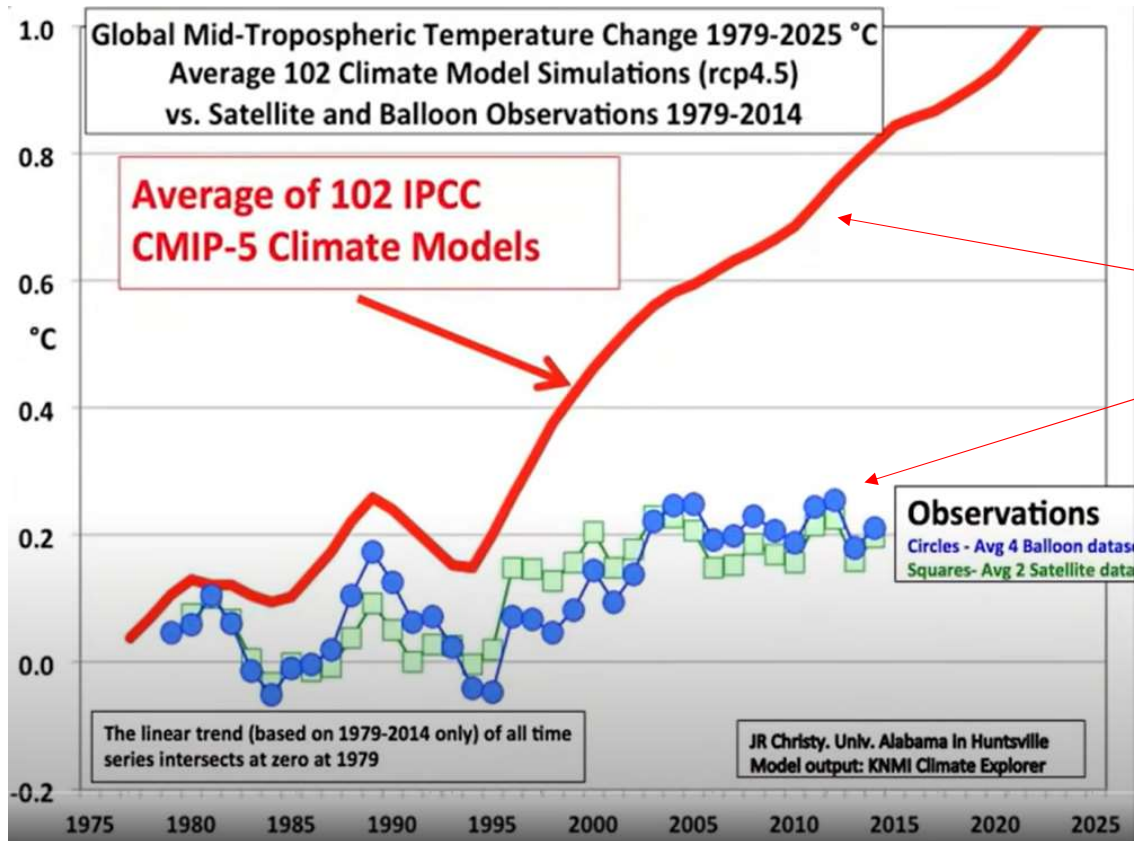
# Muddled Computer Models



*“Modeling is excruciatingly difficult, and anyone that says they are just physics either doesn’t understand them or is being deliberately misleading. Modelers base their subgrid assumptions on physics, weather phenomena and assumptions. Since different modelers will make different assumptions, results can vary widely among models.”*

*Unsettled, S. Koonin, Pg 80-82*

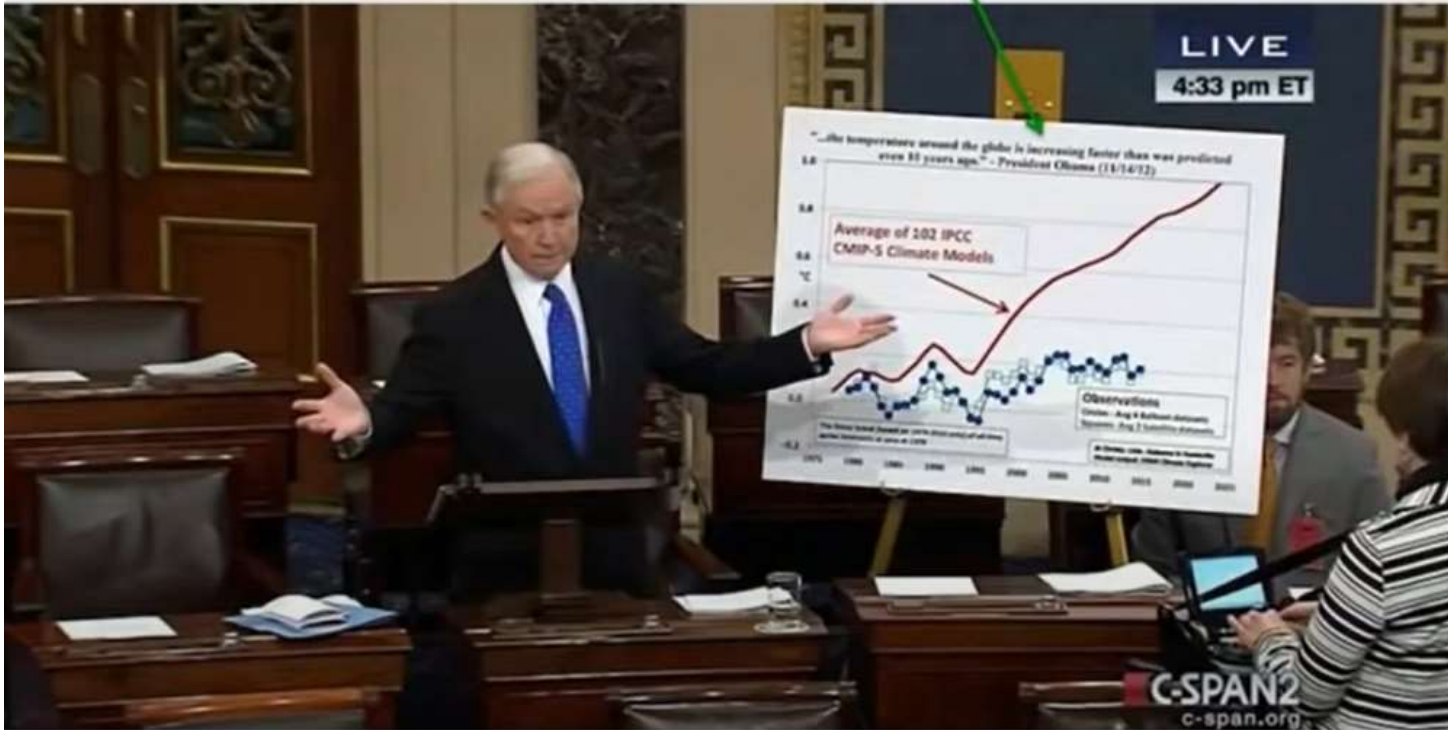
# 2015 IPCC Computer Model vs. Actual Observations



Is there a correlation between the computer model and the observed data?

J. Christy

“The temperature around the globe is increasing faster than was predicted just 10 years ago”, President Obama Nov. 14 2012



Senator Jeff Sessions Floor Speech, Jan 27, 2015

J. Christy

# Climate Change is a Political Agenda



U.S. Secretary of State John Kerry during a speech on climate change in Jakarta on Sunday. Agence France-Press/Getty Images

*The science is **unequivocal**, and those who refuse to believe it are simply **burying their heads in the sand**. We don't have time for a meeting anywhere of the **Flat Earth Society**. And in a sense, climate change can now be considered another weapon of mass destruction, perhaps the **world's most fearsome weapon of mass destruction**. –  
John Kerry  
Feb 16 2014*

J. Christy

# THE WALL STREET JOURNAL.

OPINION

## McNider and Christy: Why Kerry Is Flat Wrong on Climate Change

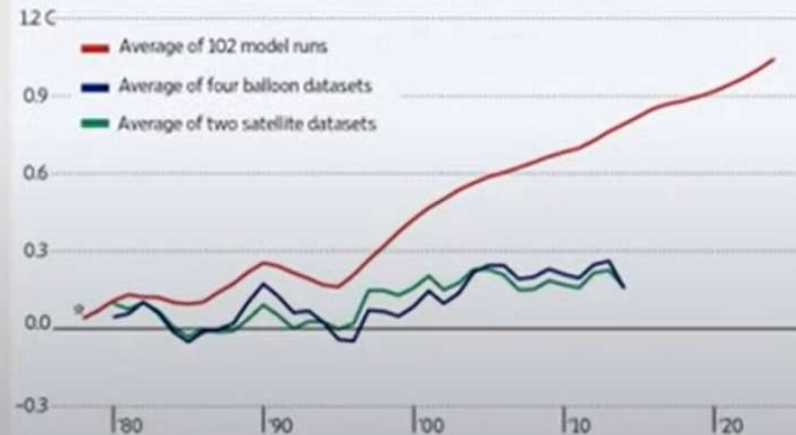
It was the scientific skeptics who bucked the 'consensus' and said the Earth was round.



U.S. Secretary of State John Kerry during a speech on climate change in Jakarta on Sunday. Agence France-Presse/Getty Images

### Warming Predictions vs. the Real World

Global mid-tropospheric temperature 5-year averages, in degrees Celsius



\* The linear trend of all three curves intersects at zero in 1979, with the values shown as departures from that trend line.

Sources: Various, as described in the "State of the Climate in 2012" in the Bulletin of the American Meteorological Society, August 2013



# Reliable, Low Cost Energy Is... GEOPOLITICAL

- Political Power
  - Geopolitical Security
  - Economic Prosperity

# What Was A Key Element In Each of These Geopolitical Events?

## Geopolitical Event

## Key Element

- 1941 Japan Attacks Pearl Harbor ← **OIL!**





Geo-Political  
Events  
Involving  
Energy

Japan attacked the U.S Pacific Fleet at its base at Pearl Harbor on the 7th of December 1941, but what led to that decision? President Roosevelt froze all Japanese assets in the United States on July 26, 1941, which effectively cut off Japan's access to US oil.

**- The answer is oil.**

# What Was A Key Element In Each of These Geopolitical Events?

## Geopolitical Event

## Key Element

- 1941 Japan Attacks Pearl Harbor ← **OIL!**
- 1973 US OPEC Oil Embargo ← **OIL!**



Geo-Political  
Events  
Involving  
Energy

In October 1973, the members of the [Organization of Arab Petroleum Exporting Countries](#) (OAPEC), led by [King Faisal](#) of [Saudi Arabia](#), proclaimed an oil [embargo](#) targeted at nations that had supported [Israel](#) during the [Yom Kippur War](#).<sup>[2]</sup>

- **The answer is oil.**

# What Was A Key Element In Each of These Geopolitical Events?

## Geopolitical Event

## Key Element

- 1941 Japan Attacks Pearl Harbor ← **OIL!**
- 1973 US OPEC Oil Embargo ← **OIL!**
- 2022 Russian invasion of Ukraine ← **OIL!**



Geo-Political  
Events  
Involving  
Energy

On 24 February 2022, Russia invaded Ukraine in a major escalation of the Russo-Ukrainian War, which started in 2014.

Russia has many natural resources, including energy valued at an estimated \$75 trillion. Russia's economy is heavily dependent on exports of these resources, especially natural gas and oil.

Revenue from the export sale of Russia's natural Gas and Oil fund their war machine. **The answer is oil.**

# What Was A Key Element In Each of These Geopolitical Events?

## Geopolitical Event

## Key Element

- 1941 Japan Attacks Pearl Harbor ← **OIL!**
- 1973 US OPEC Oil Embargo ← **OIL!**
- 2022 Russian invasion of Ukraine ← **OIL!**
- 2023 Terrorist Organizations Attack Israel ← **OIL!**



Geo-Political  
Events  
Involving  
Energy

On 7 October 2023,  [Hamas](#)  and several other  [Palestinian](#)  militant groups launched coordinated armed incursions from the  [Gaza Strip](#)  into the  [Gaza Envelope](#)  of southern  [Israel](#) , The Israeli government has reported the deaths of 1,195 people stemming from the assault on October 7.

One of Iran's primary sources of revenue has historically been its oil exports. Revenue from the export sale of Oil fund their terrorist activities.

**The answer is oil.**

[https://www.hrw.org/news/2024/07/17/questions-and-answers-hamas-led-armed-groups-october-7-2023-assault-israel#\\_Toc171593932](https://www.hrw.org/news/2024/07/17/questions-and-answers-hamas-led-armed-groups-october-7-2023-assault-israel#_Toc171593932):text=on%20social%20media.-,How%20many%20people%20were%20killed%20during%20the%20October%207%20assault%3F,-The%20Israeli%20government

<https://gemini.google.com/app>

# Energy is a Common Element In Each of These Geopolitical Events.

## Geopolitical Event

## Common Element

- 1941 Japan Attacks Pearl Harbor ← OIL!
- 1973 US OPEC Oil Embargo ← OIL!
- 2022 Russian invasion of Ukraine ← OIL!
- 2023 Terrorist Organizations Attack Israel ← OIL!

**Energy is Political Power and Security!**



# The US - Strategic Petroleum Reserve

- The SPR is an emergency stockpile of petroleum maintained by the US DOE, established on December 22, 1975, when President Ford signed the Energy Policy and Conservation Act (EPCA).
- It is the largest publicly known emergency supply in the world; its underground tanks have capacity for 714 million barrels.
- Why Does the US Maintain Strategic Petroleum Reserve?



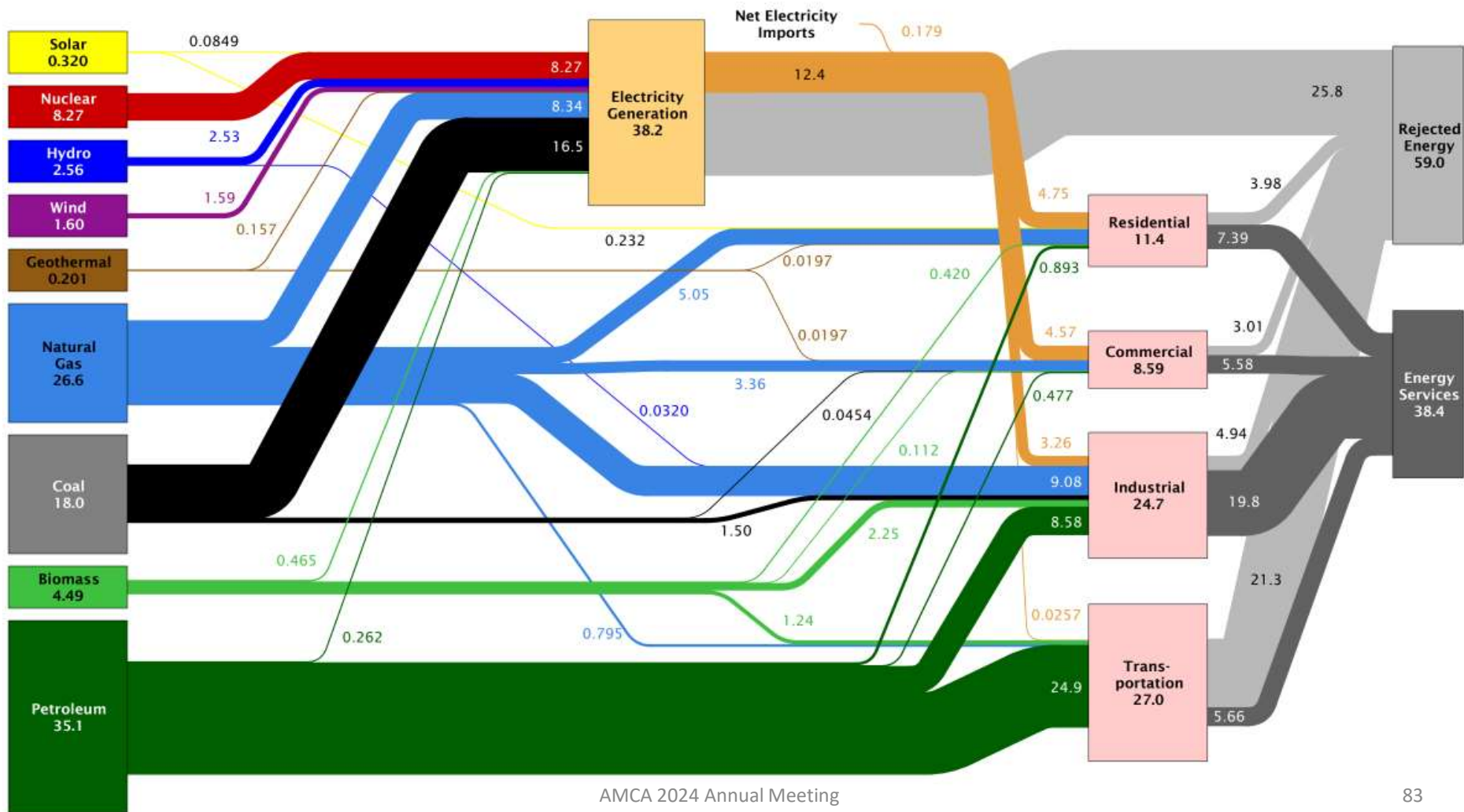
**DEFENSE  
&  
SECURITY**

# How Much Energy Used In The US In a Year ?

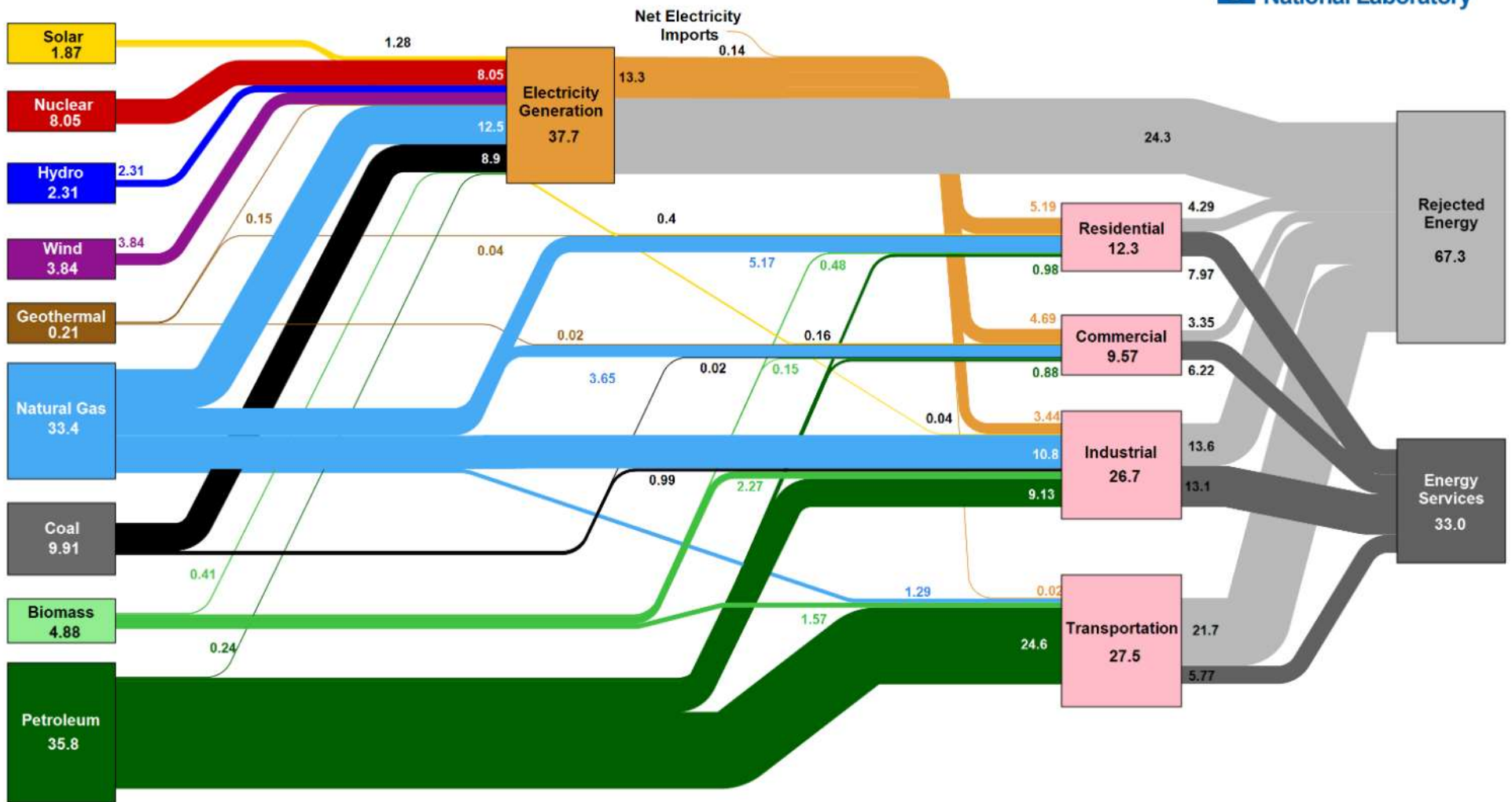
- Where Does It Come From?
- How Is It Used?

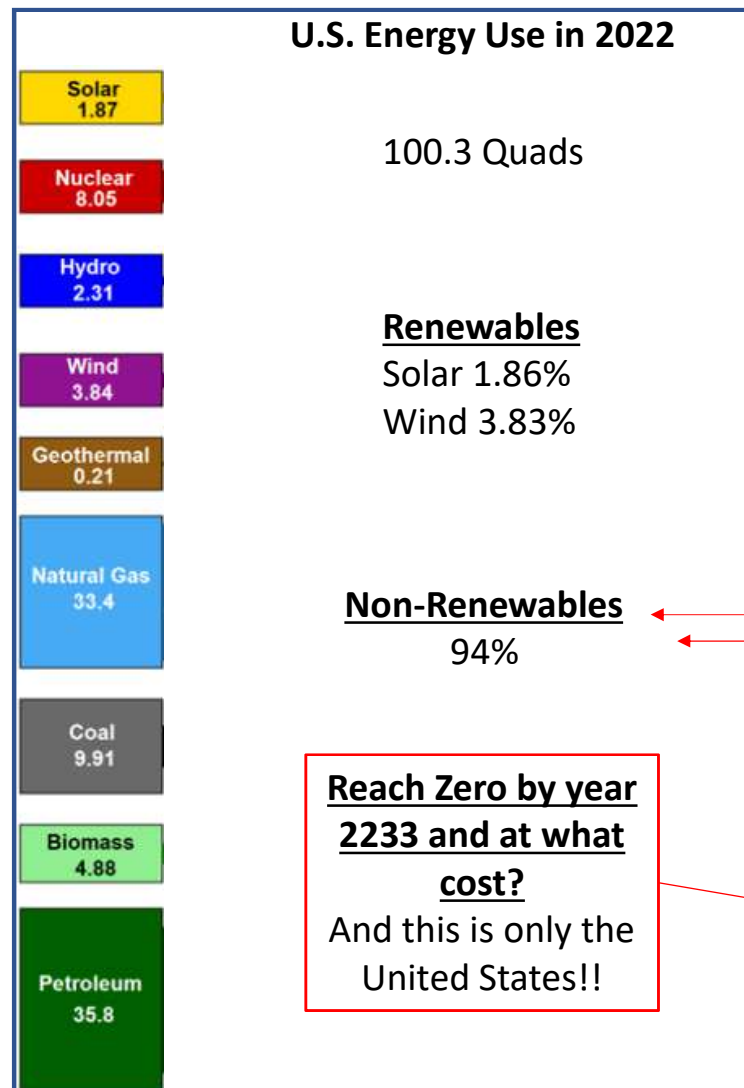
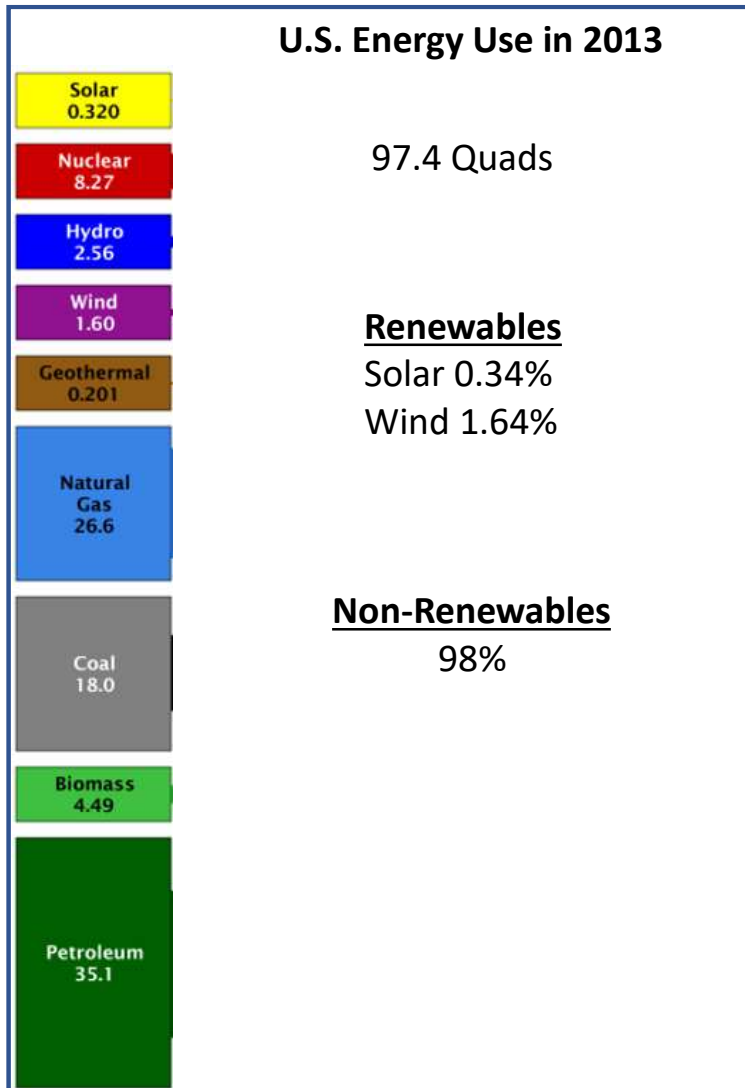
Fun Facts To Know and Tell!  
(via U.S. Energy Information Agency)

# Estimated U.S. Energy Use in 2013: ~97.4 Quads



# Estimated U.S. Energy Consumption in 2022 100.3 Quads





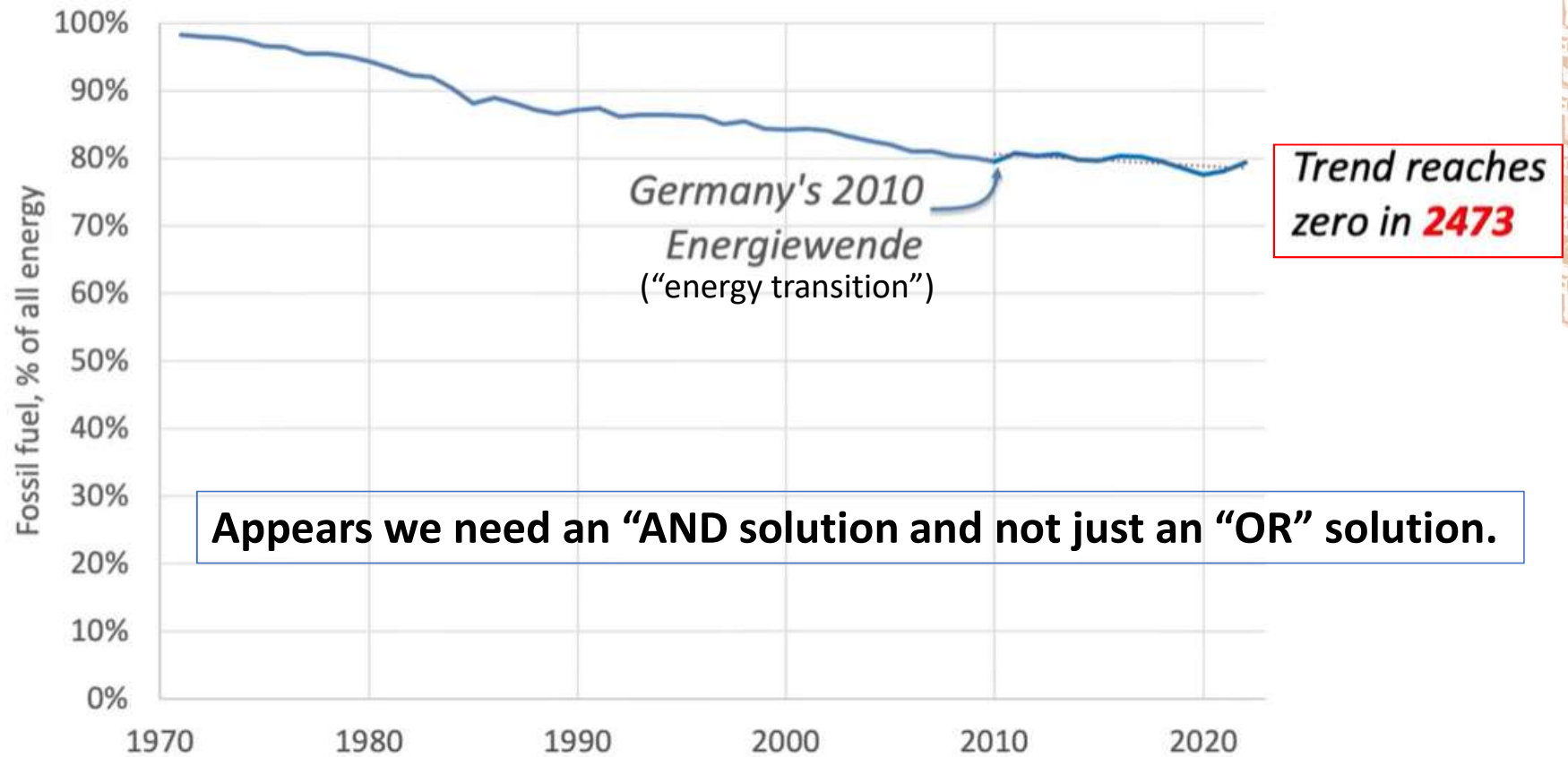
**Reach Zero by year 2233 and at what cost?**  
And this is only the United States!!

3%  
Energy Increase regardless of conservation efforts

4%  
Renewables Increase

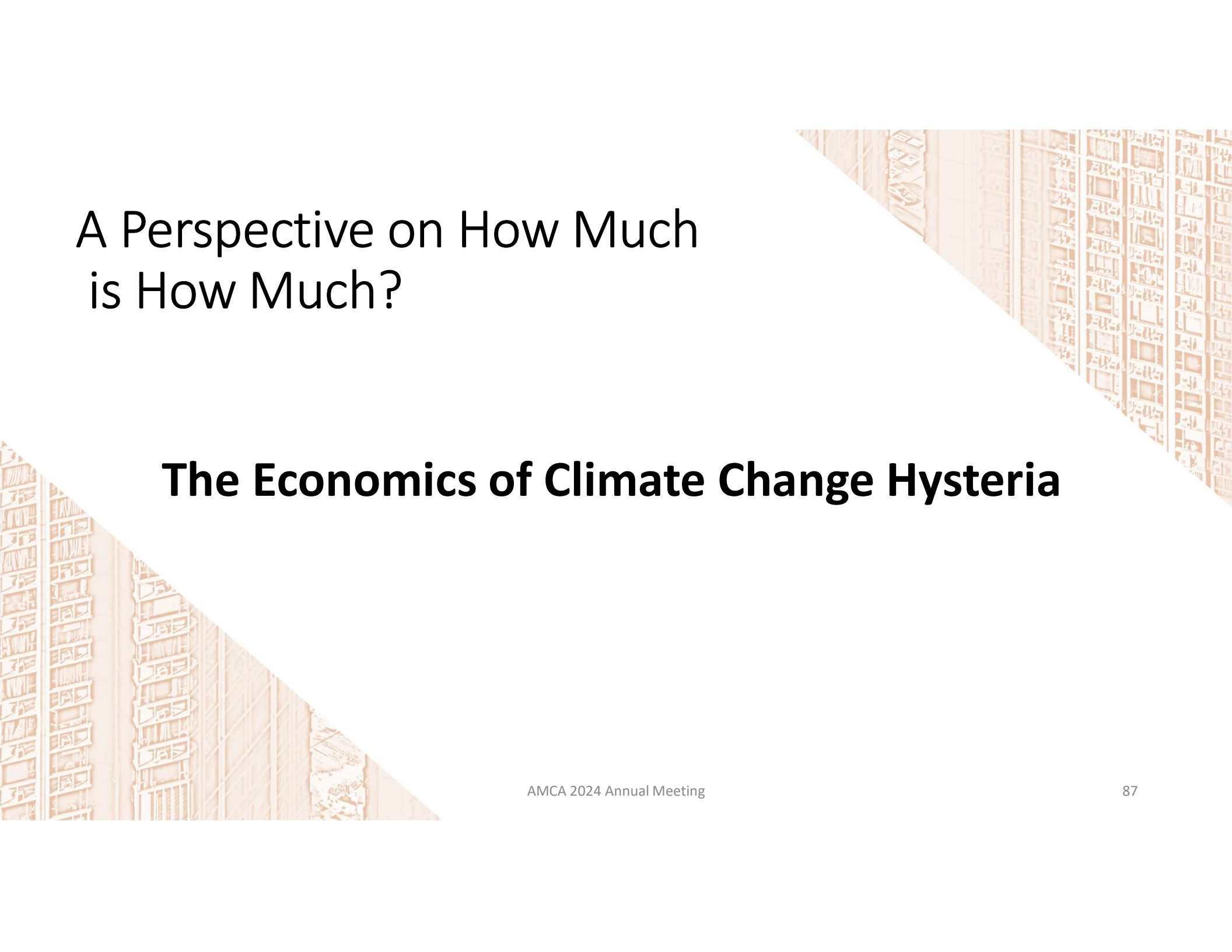
At this rate it will take 211 years to replace non-renewables with renewables provided that there is no increase in annual energy use

# Germany: Share of fossil fuels



Appears we need an "AND" solution and not just an "OR" solution.

International Energy Agency, Total Energy Supply, <https://www.iea.org/coun>

The background of the slide is a photograph of a library, showing rows of bookshelves filled with books. The image is oriented vertically and is partially obscured by a large white diagonal shape that serves as a background for the text.

A Perspective on How Much  
is How Much?

## **The Economics of Climate Change Hysteria**



The  
Economist

November 2022

## The world is missing its lofty climate targets. Time for some realism

Global warming cannot be limited to 1.5°C

*“Cutting emissions will require much more money. Roughly speaking, global investment in clean energy needs to triple from today’s \$1trn a year, and be concentrated in developing countries, which generate most of today’s emissions.”*



# A Perspective on How much is How Much?

Note: There are 738,760 days between 0 AD and 2024

\$ Received on 0 AD (Day Christ was born)



and...Spend Each Day Until Today

1 Trillion Dollars = \$1,000,000,000,000

\$1,250,000.00

**...And have money left over today!**



**United Nations**

Climate Action

## Emotional Messaging

### Humans are responsible for global warming

Climate scientists have showed that humans are responsible for virtually all global heating over the last 200 years. Human activities are causing greenhouse gases that are warming the world faster than at any time in at least the last two thousand years.

The average temperature of the Earth's surface is now about 1.1°C warmer than it was in the late 1800s (before the industrial revolution) and warmer than at any time in the last 100,000 years. The last decade (2011-2020) was the warmest on record, and each of the last four decades has been warmer than any previous decade since 1850.





**United Nations**

Climate Action

## Emotional Messaging



The Paris Agreement is an international treaty on climate change that was adopted in 2015. The agreement's main goal is to keep the rise in global surface temperature to well below 2 °C (3.6 °F) above pre-industrial levels. It also aims to help countries adapt to climate change effects, and mobilize enough finance.



United Nations

Climate Action

## Emotional Messaging



**We can pay the bill now, or pay dearly in the future**

Climate action requires significant financial investments by governments and businesses. But climate inaction is vastly more expensive. One critical step is for industrialized countries to fulfil their commitment to provide \$100 billion a year to developing countries\* so they can adapt and move towards greener economies.

\*There are approx. 195 Countries in the World; 159 are classified as Developing by the UN.

(Follow the **Money**; Follow the **Power**)



Industries  
run on  
reliable  
energy

- **Transportation (moving people and goods)**
- **Human Comfort Conditioning**
- **Electrical Generation**
- **Manufacturing**
- **Communication & Safety**
- **Healthcare**
- **Food Production**

Note that these are NOT considered world Developing Countries

The major economies of the world run on reliable energy

#	Country	GDP (nominal, 2022)	GDP (abbrev.)	GDP growth	Population (2022)	GDP per capita	Share of World GDP
1	<a href="#">United States</a>	\$25,462,700,000,000	\$25.463 trillion	2.06%	338,289,857	\$75,269	25.32%
2	<a href="#">China</a>	\$17,963,200,000,000	\$17.963 trillion	2.99%	1,425,887,337	\$12,598	17.86%
3	<a href="#">Japan</a>	\$4,231,140,000,000	\$4.231 trillion	1.03%	123,951,692	\$34,135	4.21%
4	<a href="#">Germany</a>	\$4,072,190,000,000	\$4.072 trillion	1.79%	83,369,843	\$48,845	4.05%
5	<a href="#">India</a>	\$3,385,090,000,000	\$3.385 trillion	7.00%	1,417,173,173	\$2,389	3.37%
6	<a href="#">United Kingdom</a>	\$3,070,670,000,000	\$3.071 trillion	4.10%	67,508,936	\$45,485	3.05%
7	<a href="#">France</a>	\$2,782,910,000,000	\$2.783 trillion	2.56%	64,626,628	\$43,061	2.77%
8	<a href="#">Russia</a>	\$2,240,420,000,000	\$2.240 trillion	-2.07%	144,713,314	\$15,482	2.23%

\$68 trillion

# A Perspective on How much is How Much?



As of 10/2/2024

# The Law of Sustainability

If it's not economically  
sustainable,  
It's not sustainable.



Can humor  
topple regimes?  
Egyptian satirist  
Bassem Youssef  
isn't so sure  
**C11**



# REVIEW



Ides of March  
countdown: The  
lively 'Death of  
Caesar' gets the  
details right  
**C6**

BOOKS | CULTURE | SCIENCE | COMMERCE | HUMOR | POLITICS | LANGUAGE | TECHNOLOGY | ART | IDEAS

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THE WALL STREET JOURNAL.

Saturday/Sunday, March 14 - 15, 2015 | **C1**

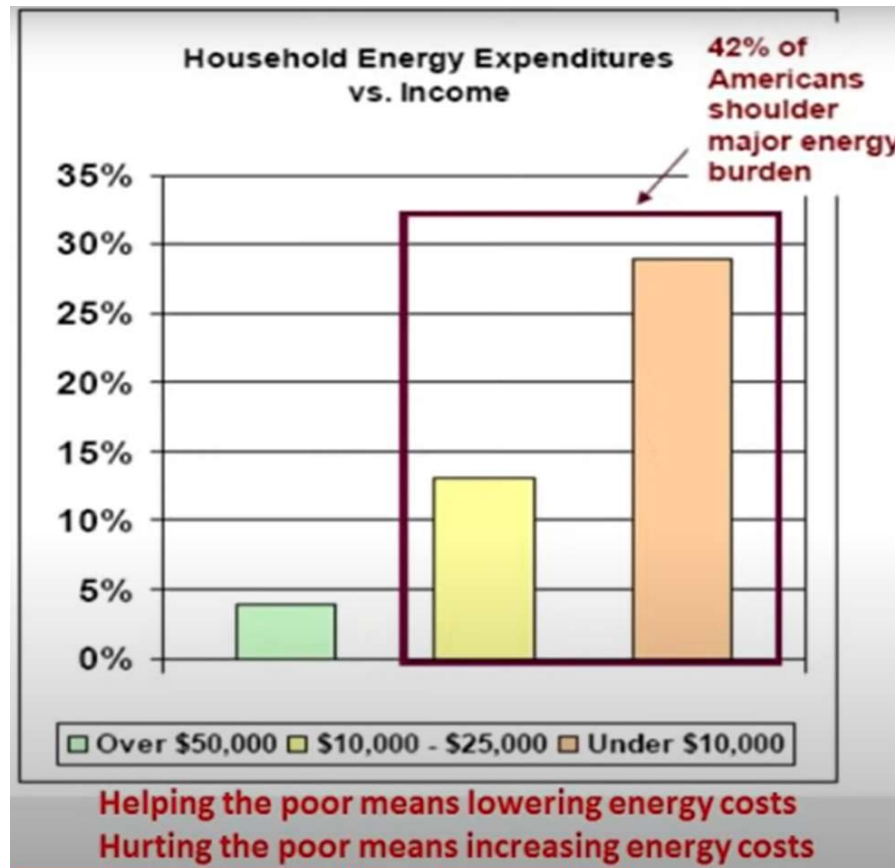
# Fossil Fuels Will Save the World *(Really)*

There are problems  
with oil, gas and coal,  
but their benefits for  
people—and the planet—  
are beyond dispute.

BY MATT RIDLEY

(Economist, Oxford)

# Immorality of efforts that result in high energy costs



AMCA 2024 Annual Meeting

J. Christy

# Is the Current Plan to Address Climate Change Sustainable?

- Do we need to change our rhetoric and strategy to “**and**” and not just “**or**” regarding energy sources? Reality is that we still need fossil fuels for the foreseeable future.
  - We have no plan to create **100% reliable** renewable energy (alternative to fossil fuels) to power our present and future economic growth.
    - Geopolitical conflicts involving energy will ensue if the need for reliable energy is not addressed.
      - Eliminating the use of fossil fuels (i.e. electrification) will create an energy monopoly, increasing the cost of energy for everyone.

# Is the Current Plan to Address Climate Change Sustainable?

- This will increase cost of goods and services and cause inflation.
- The Middle and Lower class will suffer most with loss of jobs and economic freedom.
  - We will spend trillions of dollars, damage our economies, and hurt the poor.
    - Potentially people in countries around the world will also die.



# A Potential Solution...

## Invest in Developing a Green Substitute to Fossil Fuels

Invest in Free Market Capitalism to innovate the development of a clean, reliable, cost effective substitute to fossil fuels.

# Going ***BEYOND...***

**Embrace the Reality**

Our current path of addressing climate requires additional thought and discussion.

**Our Associations and members must participate in and be vocal asking questions about the cost and the effectiveness of proposed Climate Change solutions.**

**This needs to be a role of AMCA**

**We are all in this boat!**



AMCA 2024 Annual Meeting

# Going *BEYOND*...

Continue to  
**INNOVATE**  
or  
**PERISH**



## Mahalo!