

The Week That Was: 2023-12-02 (December 2, 2023)
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The Science and Environmental Policy Project

Quote of the Week: *“The fundamental cause of the trouble is that in the modern world the stupid are cocksure while the intelligent are full of doubt.”* – Bertrand Russell

Number of the Week: 30 to 100 times as much energy



Dear Reader of The Week That Was,

The Science & Environmental Policy Project (SEPP) is a 501-c-3 organization, incorporated in Virginia. Its Federal I.D. Number is 54-1645372 and donations are US tax deductible. Established in 1990 by the late S. Fred Singer to challenge government environmental policies employing poor science, SEPP stands for objective science, based on physical evidence and rigorous adherence to the scientific method.

No matter how elaborate, results from numerical models that are not thoroughly tested against physical evidence are speculative and cannot be relied upon. Testing the results from using parts of a model against the results from the entire model is a ruse used by the UN Intergovernmental Panel on Climate Change (IPCC). Major government policies based on speculation and misleading “modeling” are a waste of resources.

Physicist Dr. Thomas Sheahan is Chairman. Other distinguished scientists serve on the board of directors. Ken Haapala continues as president, compiles TWTW, and oversees general operations. We continue to be very productive and are striving to carry on the tradition of scientific integrity, together with the priority of data over theory, which Fred Singer always espoused.

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. We continue to contest these myths, and others, with physical evidence.

In collaboration with like-minded groups, we produce hard-hitting comments for the public record and provide scientific testimony on Federal government climate and energy policy. We are actively attempting to eliminate or change the EPA's Endangerment Finding that, despite a lack of physical evidence, carbon dioxide (CO₂) poses a danger to public health.

In 2007, SEPP established NIPCC (Non-governmental International Panel on Climate Change) to respond to the false claims of the UN-IPCC and its followers. They claim, without physical evidence, that the use of fossil fuels will lead to climate disasters. The Heartland Institute continues the NIPCC efforts with well-attended sessions of the International Conference on Climate Change and the NIPCC reports at www.NIPCCreport.org.

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THIS WEEK:

By Ken Haapala, President, Science and Environmental Policy Project (SEPP)

Scope: The following issues are presented. It is important to recognize that mathematics is the language of science, not physical science itself. Nobel Laureate in physics John Clauser discusses what is missing in the UN climate science. Professor Wyss Yim discusses why it is important to understand how volcanic eruptions change climate. Atomic, Molecular, and Optical (AMO) physicist William van Wijngaarden presents why calculations from an imaginary atmosphere give misleading results. Robert Bryce brings up a real weather threat to Northeastern US, which it is not prepared to meet. The need for reliable, affordable electricity is increasing in a high-tech economy and COP-28 has begun.

Beyond Mathematics: Mathematics is the language of science. As with all languages it can mislead and deceive. A brilliant pioneer in quantum mechanics, Nobel Laureate Richard Feynman understood this and stated that in physical sciences the ultimate and final judge is observation of nature, including realistic experiments: Is the mathematics consistent with observation of nature?

Also, a student in quantum mechanics, now a retired experimental and theoretical physicist John Clauser received his Nobel in physics in 2022 along with Alain Aspect and Anton Zeilinger for having conducted:

“groundbreaking experiments using entangled quantum states, where two particles behave like a single unit even when they are separated. Their results have cleared the way for new technology based upon quantum information.

The ineffable effects of quantum mechanics are starting to find applications. There is now a large field of research that includes quantum computers, quantum networks and secure quantum encrypted communication.

One key factor in this development is how quantum mechanics allows two or more particles to exist in what is called an entangled state. What happens to one of the particles in an entangled pair determines what happens to the other particle, even if they are far apart.

For a long time, the question was whether the correlation was because the particles in an entangled pair contained hidden variables, instructions that tell them which result they should give in an experiment. In the 1960s, John Stewart Bell developed the mathematical inequality that is named after him. This states that if there are hidden variables, the correlation between the results of a large number of measurements will never exceed a certain value. However, quantum mechanics predicts that a certain type of experiment will violate Bell’s inequality, thus resulting in a stronger correlation than would otherwise be possible.

John Clauser developed John Bell’s ideas, leading to a practical experiment. When he took the measurements, they supported quantum mechanics by clearly violating a Bell inequality. This means that quantum mechanics cannot be replaced by a theory that uses hidden variables.”

Alain Aspect closed some of the loopholes remaining and helped pioneer quantum information science. Anton Zeilinger started using entangled quantum states to pioneer quantum computers, quantum networks, and quantum encrypted communication.

It appears that John Clauser embraces the views of Richard Feynman when Feynman wrote:

*"All other aspects and characteristics of science can be understood directly when we understand that observation is the ultimate and final judge of the truth of an idea." — **The Meaning of It All***

On November 14, Clauser outraged many in the legacy press such as the Washington Post by declaring there is no climate crisis. Journalists and politicians simply cannot understand that assertions from national and international political organizations, based on the results of global climate (computer) models are not sufficient proof that there is a climate crisis. The models and the claims must be supported by physical evidence, which is lacking. If anything, the climate in the early part of the 21st century is more benign than the climate was in the early part of the 20th century.

Of course, the legacy press immediately claimed that Clauser is using his status to mislead the public. But it is the press that has been fooled and is misleading the public by claiming a false “consensus” on climate change. Earth’s climate has been changing for hundreds of millions of years and it will continue to change no matter what humanity does. Politicians only have their arrogance to assert they can stop climate change, but not the power. See links under Communicating Better to the Public – Use Yellow (Green) Journalism? and <https://www.nobelprize.org/prizes/physics/2022/press-release/>

Challenging Climate Change: Unfortunately, a transcript of John Clauser’s presentation on November 14 is not available. But a video of his talk among other talks is available. Further, he gave the keynote lecture in Quantum Korea 2023 on June 26, in which he stated: “I don’t believe there is a climate crisis.” The description of Clauser’s address in the Seoul Economic Daily begins:

“In the era of AI [Artificial Intelligence], scientists should play the role of discerning truth from falsehood.”

“The world we live in today is filled with misinformation. It is up to each of you to serve as judges, distinguishing truth from falsehood based on accurate observations of phenomena.”

*Renowned quantum physics scholar Dr. John Clauser (81), who received the Nobel Prize in Physics last year for his research in quantum mechanics, emphasized at the opening ceremony of the “Quantum Korea 2023” event, held by the Ministry of Science, ICT, and Future Planning with the theme of “Korea’s Quantum Leap,” at Seoul’s Dongdaemun Design Plaza (DDP) on the 26th. He stated, “Misinformation is being spread by those with political and opportunistic motives.” Furthermore, he remarked, “**Even chatbots like ChatGPT can be better at lying than humans,**” emphasizing that “**distinguishing truth from falsehood is a challenging task for both humans and computers.**” [Boldface added]*

During his keynote speech aimed at young Korean scientists and engineering students, Dr. Clauser urged scientists to fulfill their social role by verifying facts and informing the public, particularly in light of the potential drawbacks of interactive artificial intelligence (AI) systems that generate and provide unverified information to users. He emphasized the importance of scientists in society and called upon them to engage in fact-checking and dissemination of information.

He delved into the controversial subject of quantum mechanics and used his past research experience to illustrate his point, stating, “True truth can be found through the observation of natural phenomena.” He continued, “Scientists have obtained information through careful observation and experimentation, and they have prevented the spread of misinformation through papers and peer reviews.” He added, “In an era of rapid advancement in AI technology, the role of scientists as judges is necessary.”

Clauser starts his talk on November 14 by stating “The planet is not imperiled.” He recognizes the work of Will Happer, Arthur Robinson, Willie Soon, Fred Singer, Richard Lindzen, Judith Curry, and many others. He also cited the work of a growing list of advocacy groups including the Heartland Institute, the Non-Governmental International Panel on Climate Change, Access to Energy, the CO2 Coalition, Doctors for Disaster Preparedness, and Clintel’s World Climate Declaration.

As with AMO physicists William van Wijngaarden and William Happer, Clauser recognizes that clouds are a critical part of the puzzle of Earth’s climate change, which no one understands. It is foolish to ignore this lack of understanding. According to Clauser, the cloud-sunlight relationship stabilizes Earth’s temperatures and is dominant over CO2. Clouds are highly variable and reflect up to 90% of the sunlight hitting them, while oceans reflect only about 20%. Overall, our planet reflects about 30% of the sunlight out into space.

Clauser asks, “What does the earth look like when viewed from space in sunlight? Negligible ice is evident in near-equatorial satellite views (areas that the sun typically illuminates). Painting rooftops white is a waste. Clouds cover 60% to 65% of the land and about 70% of the oceans. Clauser then explores how his cloud-sunlight-reflectivity thermostat mechanism works. He compares his views with those of the UN International Panel on Climate Change (IPCC) (and equally to its followers such as NOAA and the National Science Foundation which finance the US global modeling efforts at Princeton and the National Center for Atmospheric Research (NCAR)).

The IPCC shows its numbers only for clear skies, but not for overcast skies. This is deceptive. Further, according to Clauser, NOAA has demonstrated dishonesty on climate, extreme weather events, particularly in the work of NOAA administrator Jane Lubchenco and Tom Karl who provide “An important example of what I call a government-sponsored technical con.” He cites former DOE Under Secretary for Science Steve Koonin’s book **Unsettled? What Climate Science Tells Us, What It Doesn’t, and Why It Matters** in giving examples how NOAA has doctored data to make claims of increasing extreme weather events. One example is suddenly EF3+ data suddenly disappeared from NOAA’S Weather and Climate Extremes Index, presumably because these devastating tornadoes are declining. EF is the extended Fujitsu scale for grading tornadoes, where level 3 or higher is considered severe.

Clauser concludes by saying that something is seriously missing in the physics reported by the IPCC (and now in the physics reported by the US National Climate Assessment, which is composed of 14 agencies, including the National Science Foundation). The real issue is an energy shortage, not an excessive use of fossil fuels. See links under Challenging the Orthodoxy, Challenging the Orthodoxy – Radiation Transfer, and <https://co2coalition.org/news/nobel-laureate-dr-john-clauser-i-dont-believe-there-is-a-climate-crisis/>

Volcanic Eruptions & Climate Variability: Professor Wyss Yim of University of Hong Kong gave a talk to a group of Climate and Energy Realists in Australia. It was similar to his presentation discussed on the Oct 29, 2022, TWTW. All too frequently, submarine volcanoes creating warmth on the surface of the oceans are confused with El Niños, or worse, warming of the oceans from the influence of carbon dioxide. Greenhouse gases radiate infrared energy which does not penetrate even one inch into the oceans.

In his latest talk, Yim emphasizes that the IPCC now assumes all climate change (warming) is the product of human influence and is almost immediate rather than having to persist for 30 years or more. In short, any weather change can be called climate change. No doubt, a cooling would be dismissed as a freak event, or simply “weather.”

Yim states that climate change is a product of astronomical forcing including solar variability and the interaction of the Earth systems (atmosphere, hydrosphere, biosphere, cryosphere, pedosphere (the soil mantle of Earth) and lithosphere (rocky shell) including volcanism.

Yim ranks the order of importance for causing climate change as:

1. Astronomical forcing (glacial cycles, and regional changes such as monsoons and daily changes
2. Geothermal heat/plate climatology www.plateclimatology.com
3. Human induced changes including heat generation, water cycle changes and greenhouse gases.

He classifies volcanic eruptions – the magma composition is important.

1. Sub-aerial/ terrestrial
2. Submarine / sea floor
3. Mixed

Yim gives a Volcanic Explosive Index – explosiveness. In the slide he shows the importance of convection cells (Hadley to 30 degrees latitude; Ferrel (Mid-latitude); and Polar 60 to 90 degrees) and the subtropical (30 N) and polar jet (60 N) streams.

Volcanic eruptions create the formation of heat blobs in the oceans and cause pressure changes, surface wind changes, sea-level changes --- thermal expansion, ocean current changes and polar sea-ice changes.

The submarine volcano off El Hierro produced basaltic lavas at about 1200°C. It actually caused a small section of the Atlantic to boil, which Al Gore claimed was the result of infrared radiation from greenhouse gases, namely CO₂.

Yim gives interesting statistics on submarine volcanoes: Number – 1 million; Rising above 1 km from seabed – 75,000; Magma output in oceanic ridges – 75%; and Active submarine volcanoes -- - about 5000.

Basaltic magma is hotter from direct melting of Earth's mantle; acidic magma (from the volcanic vent, rich in silicate-rich and viscous) is more explosive. The Geothermal heat released during eruptions change the 'normal' oceanic and / or atmospheric circulation and cause Ocean warming and ecological changes.

Yim states that ARGO floats are a good way to look at changing oceanic temperatures and salinity (from increasing evaporation?). Temperature and salinity are increasing off Alaska, Greenland and in the Mediterranean. The US maintained 2234 out of 3983 ARGO floats as of September 2018.

Yim has a slide showing the volcanic eruptions with major climatic impact.

*“2014 to 2016 ENSO --- volcanic eruptions in Pacific 2012-2016
7/2012 Havre, north of New Zealand (7/2012), Largest deep-ocean silicic eruption of the past century with lava sourced from 14 vents from 900-1200 m depth
3/2013-9/2015 Nishino-shima south Tokyo, Initially submarine
12/2014-1/2015, Hunga, Tonga
4/2015-5/2015, Axial Seamount
5/2015-6/2015 Wolf, Galapagos, Basaltic lava into the Pacific
7/2016 onward Kilauea, Hawaii Basaltic lava into the Pacific*

In showing cooked bottom feeders, eel and prawns, National Geographic blamed it on carbon dioxide warming.”

Yim states that *“Contributors to the long and strong 2014-2016 ENSO include the Nishino-shima eruption from March 2013-August 2015, the Hunga eruption from December 2014-January 2015, the Axial Seamount eruption from April to May 2015 and the Wolf eruption from May to June 2015. This is also supported by Arctic sea-ice changes.”*

“Climatic models must take into account the influence of volcanic eruptions on atmospheric and oceanic circulation. The role of submarine volcanism in regional oceanic warming is greatly underestimated.

The missing heat attributed to carbon dioxide storage in oceans is better explained by the release of geothermal heat through submarine volcanism.”

“Volcanic eruptions as a cause in both cooling and warming is underestimated... Our dynamic Earth must be understood.” See links under Challenging the Orthodoxy, and the October 29, 2022, TWTW.

Real Atmosphere: The November 18 TWTW discussed a presentation by AMO Physicist William van Wijngaarden to the Irish Climate Science Forum. In it he discussed that the IPCC (and the US NCA) uses an imaginary atmosphere to estimate the greenhouse effect of methane and nitrous oxide (from artificial fertilizer). The IPCC and the US NCA claim that adding methane to the atmosphere causes significant increases in temperatures.

Using the real atmosphere based on the high-resolution transmission molecular absorption (HITRAN) database, modified by 50 plus years of measurements by instruments on weather balloon recording atmospheric pressure, altitude, water vapor, and temperature, van Wijngaarden and William Happer have shown that increasing methane has an insignificant influence on Earth’s temperature. The radiative influence of methane is already covered (saturated) by water vapor. Policies to reduce or eliminate methane have no effect on temperatures or climate and create unnecessary harm. The Irish Climate Science Forum has posted the video on UTUBE. See link under Challenging the Orthodoxy.

A Real Threat: Energy journalist Robert Bryce brings attention to a real threat that millions of Americans living in the Northeast face this winter – overdependence on electricity from unreliable wind and solar and to political restrictions on natural gas pipelines and wells. For example, natural gas producers must get their electricity from the grid rather than generate electricity from the natural gas they produce. The warming is in “Winter Storm Elliott Report: Inquiry into Bulk-Power System Operations During December 2022” by FERC and NERC.

FERC is the Federal Energy Regulatory Commission whose responsibility is to ensure reliable, safe, secure & economically efficient energy for consumers at a reasonable cost. NERC is the Electric Reliability Organization (ERO) for North America with jurisdiction over users, owners, and operators of bulk power systems in the US and Canada. They have done their job alerting government officials of the dangers of their policies on electricity. It is doubtful that government officials in Washington and the Northeastern states will listen to the real alarm. Bryce writes:

“Despite the need for more gas, over the past few years, four major interstate pipelines, with a total of 931 miles of pipe, have been blocked in New York by climate activist groups including 350.org. Those groups found a willing ally in the state’s execrable former governor, Andrew Cuomo.”

“We’ve been warned. In fact, we’ve repeatedly been warned by both FERC and NERC that we don’t have enough gas pipelines and that our electric grid is relying too heavily on natural gas-fired power plants and weather-dependent sources like wind and solar.”

Cold kills more people than warmth. Yet, politicians in cold states ignore the hazards they create by closing down nuclear and coal-fired power plants as well as imposing unnecessary regulations on natural gas producers. See links under Energy Issues – US and Washington’s Control of Energy.

Power Hungry: Previously, TWTW discussed the testimony before the Virginia State Corporation Commission by Dominion Electric that estimated that data centers which require 100% reliable electricity will use about 5 to 7 times more electricity as they go to Artificial Intelligence. Data centers have short term backup, but batteries cannot work over long periods.

Now reporter Felicity Bradstock of Oil Price.com. fleshes out some of this increase in electricity required. She writes:

“Companies such as Nvidia now use advanced graphics processing units (GPUs) rather than simpler processors, called CPUs, to power operations, which require more energy to power. Brady Brim-Deforest, the CEO of Formula Monks, stated, ‘For the next decade, GPUs are going to be the core of AI infrastructure. And GPUs consume 10 to 15 times the amount of power per processing cycle than CPUs do. They’re very energy intensive.’”

On the advantage of using AI for weather forecasting, David Whitehouse writes:

“AI weather forecasting suites look for patterns in the way the atmosphere changes using a multi-decade database of actual weather observations combined with details of their analysis. In comparisons between supercomputers and AI programs, after being initialised with the same data, GraphCast outperformed the European Centre For Medium-Range Weather Forecasting (ECMRF) forecast out to 10 days for 90% of the time in less than a minute running on a desktop computer!”

“Ultimately the decision will be made on results. Physical models run in supercomputers or AI programs on desktops? The answer may soon become obvious surprising some weather scientists weaned on supercomputers.”

However, the AI desktops require massive datacenters. Reliable, affordable electricity is needed for a high-tech economy, something that many in Washington do not understand. See links under Energy Issues – US and Models v. Observations.

It Has Begun: The 28th annual Conference of Parties to the UN Framework Convention on Climate Change (UNFCCC) has begun with some 70,000 attendees, no doubt many hoping to tap into a possible vast flow of money expected sometime in the future. As discussed above, it is all based on third-rate science that omits critical parts of the physical evidence. Perhaps Robert Layman writing in the Canadian Financial Post has the best summary of the preliminaries. He writes:

“There’s the first large-number problem for COP28. How does a group of 70,000 people possibly discuss anything in a coherent way?”

“To oversimplify, there are four main themes:

◆ *how to accelerate all countries' efforts to reduce greenhouse gas emissions so as to meet a proposed 2050 'net-zero' target (zero not being a large number).*

◆ *how to induce wealthier countries to give much more money to poorer countries to help them both mitigate and adapt to climate change.*

◆ *how to persuade all countries to phase out production of fossil fuels by 2050; and, finally,*

◆ *how to increase the UN's role as central coordinator and global regulator of climate efforts."*

"Most discussions behind closed doors will be about money. Rich countries are now paying about US\$70 billion in climate aid, mostly to help finance GHG emissions reduction. The developing countries want this raised to at least US\$1.4 trillion per year by 2026, 20 times higher."

Already US Vice President Kamala Harris has pledged \$3 billion to the UN Green Climate Fund but has no idea of the source of the money. See links under After Paris!

Number of the Week: 30 to 100 times as much energy. According to reports, at the COP-28 US climate envoy John Kerry will announce dramatic breakthroughs in providing commercial electricity using nuclear fusion. Such an announcement would be premature.

Edward Moses is the Chief Executive Officer of Longview Fusion Energy Systems. He was the Director of Livermore's National Ignition Facility (NIF) from 2000 to 2013 and was responsible for leading the design, technology development, construction, and operation of the NIF. He writes:

"On December 5, 2022, at the Lawrence Livermore National Laboratory, in the National Ignition Facility (NIF), the world's largest and most energetic laser, 192 laser beams were pointed at a peppercorn-sized target and a tiny sun was created on Earth. More fusion energy was produced than the laser energy needed to ignite the fusion fuel."

This was a significant breakthrough after over 60 years of efforts. However, after the second demonstration in July 2023, the World Nuclear News organization reported:

*"Energy gain in this context only compares the energy generated to the energy in the lasers, not to the total amount of energy pulled off the grid to power the system, which is much higher. Scientists estimate **that commercial fusion will require reactions that generate between 30 and 100 times the energy in the lasers.**" [Boldface added]*

Given the failure of Washington to separate an imaginary atmosphere from a real atmosphere, it is difficult to expect any real estimates of when such electricity generation will be available on the US grid. See links under Nuclear Energy and Fears, <https://www.llnl.gov/archive/news/lawrence-livermore-national-laboratory-achieves-fusion-ignition>, and <https://world-nuclear-news.org/Articles/LLNL-researchers-achieve-fusion-ignition-for-second#:~:text=%22Since%20demonstrating%20fusion%20ignition%20for,we%20repeated%20ignition%20at%20NIF.%22>

Science: Is the Sun Rising?

Terrestrial Temperature, Sea Levels and Ice Area Links with Solar Activity and Solar Orbital Motion

By Valentina V. Zharkova and Irina Vasilieva, Natural Science, Sep 9, 2023

<https://www.scirp.org/journal/paperinformation.aspx?paperid=129477>

Commentary: Is the Sun Rising?

Climate, CO₂, and the Sun

By Andy May, WUWT, Nov 25, 2023

<https://wattsupwiththat.com/2023/11/25/climate-co2-and-the-sun/>

Challenging the Orthodoxy -- NIPCC

Climate Change Reconsidered II: Physical Science

Idso, Carter, and Singer, Lead Authors/Editors, Nongovernmental International Panel on Climate Change (NIPCC), 2013

<https://www.heartland.org/media-library/pdfs/CCR-II/CCR-II-Full.pdf>

Summary: https://www.heartland.org/_template-assets/documents/CCR/CCR-II/Summary-for-Policymakers.pdf

Climate Change Reconsidered II: Biological Impacts

Idso, Idso, Carter, and Singer, Lead Authors/Editors, Nongovernmental International Panel on Climate Change (NIPCC), 2014

<http://climatechangereconsidered.org/climate-change-reconsidered-ii-biological-impacts/>

Summary: <https://www.heartland.org/media-library/pdfs/CCR-IIb/Summary-for-Policymakers.pdf>

Climate Change Reconsidered II: Fossil Fuels

By Multiple Authors, Bezdek, Idso, Legates, and Singer eds., Nongovernmental International Panel on Climate Change, April 2019

<http://store.heartland.org/shop/ccr-ii-fossil-fuels/>

Download with no charge:

<http://climatechangereconsidered.org/wp-content/uploads/2019/01/Climate-Change-Reconsidered-II-Fossil-Fuels-FULL-Volume-with-covers.pdf>

Why Scientists Disagree About Global Warming

The NIPCC Report on the Scientific Consensus

By Craig D. Idso, Robert M. Carter, and S. Fred Singer, Nongovernmental International Panel on Climate Change (NIPCC), Nov 23, 2015

<http://climatechangereconsidered.org/>

Download with no charge:

<https://www.heartland.org/policy-documents/why-scientists-disagree-about-global-warming>

Nature, Not Human Activity, Rules the Climate

S. Fred Singer, Editor, NIPCC, 2008

http://www.sepp.org/publications/nipcc_final.pdf

Global Sea-Level Rise: An Evaluation of the Data

By Craig D. Idso, David Legates, and S. Fred Singer, Heartland Policy Brief, May 20, 2019

https://www.heartland.org/_template-assets/documents/publications/SeaLevelRiseCCRII.pdf

Challenging the Orthodoxy – Radiation Transfer

The Role of Greenhouse Gases in Energy Transfer in the Earth's Atmosphere

By W. A. van Wijngaarden and W. Happer, Preprint, Mar 3, 2023

<https://co2coalition.org/wp-content/uploads/2023/11/The-Role-of-Greenhouse-Gases-in-Energy-Transfer-in-the-Earths-Atmosphere.pdf>

[SEPP Comment: This appears to be the same paper as “Atmosphere and Greenhouse Gas Primer” with a different title. It has been discussed previously in a TWTW.]

Challenging the Orthodoxy

Challenging Climate Change

With John Clauser, Deposit of Earth Coalition, Nov 14, 2023

<https://www.youtube.com/watch?v=OsXipMz2seY>

Volcanic Eruptions & Climate Variability

Professor Wyss Yim, University of Hong Kong, Via Climate & Energy Realists of Five Dock, Accessed Nov 20, 2023

<https://www.youtube.com/watch?v=HPkZj6Mx6d0>

Video

The latest Climate Science - Good news for Irish Agriculture!

Video by Prof. William A van Wijngaarden, Irish Climate Science Forum (ICSF), Nov 14, 2023, Accessed Nov 24, 2023

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

Three Graphs That Show There Is No ‘Climate Crisis’

By John Staddon, The Daily Sceptic, Nov 26, 2023

<https://dailysceptic.org/2023/11/26/three-graphs-that-show-there-is-no-climate-crisis/>

[SEPP Comment: The graph of Temperatures and CO2 from ice cores show temperatures falling before CO2. Al Gore got time backwards.]

Un-refutable Evidence of Alarmists’ Ocean Acidification Misinformation in 3 Easy Lessons

By Jim Steele, WUWT, Dec 1, 2023

<https://wattsupwiththat.com/2023/12/01/un-refutable-evidence-of-alarmists-ocean-acidification-misinformation-in-3-easy-lessons/>

[SEPP Comment: Limestone deposits, ranging from chalk to dolomite, are historic evidence that NOAA’s claims of ocean acidification are propaganda bunk.]

Defending the Orthodoxy

COP28 should seek total fossil fuel 'phaseout': UN chief

By AFP Staff Writers, United Nations, United States (AFP) Nov 30, 2023

https://www.energy-daily.com/reports/COP28_should_seek_total_fossil_fuel_phaseout_UN_chief_to_AFP_999.html

The costs of delay on climate change are rising — we must act now

By Inger Andersen, The Hill, Nov 27, 2023

<https://thehill.com/opinion/energy-environment/4326612-the-costs-of-delay-on-climate-change-are-rising-we-must-act-now/>

“Inger Andersen is under-secretary-general of the United Nations and executive director of the UN Environment Programme (UNEP)”

Defending the Orthodoxy – Bandwagon Science

New study reveals how pollution affects clouds and climate

Press Release by Hebrew University of Jerusalem, Nov 28, 2023 [Bernie Kepshire]

<https://phys.org/news/2023-11-reveals-pollution-affects-clouds-climate.html>

Link to paper: **Radiative forcing from aerosol–cloud interactions enhanced by large-scale circulation adjustments.**

By Guy Dagan, et al. Nature Geoscience, Nov 20, 2023

<https://www.nature.com/articles/s41561-023-01319-8>

[SEPP Comment: Another article in Nature in which models are not tested against observations of Nature?]

Robust evidence for reversal of the trend in aerosol effective climate forcing

Johannes Quaas, et al., Atmospheric Chemistry and Physics, Sep 21, 2022

<https://acp.copernicus.org/articles/22/12221/2022/>

From the abstract: “This reduction leads to an acceleration of the forcing of climate change, i.e. an increase in forcing by 0.1 to 0.3 W m⁻², up to 12 % of the total climate forcing in 2019 compared to 1750 according to the Intergovernmental Panel on Climate Change (IPCC).”

[SEPP Comment: Compared to 1750? Absurd! A microscope looking at fine print , but not seeing that the MAJOR contributor of the albedo is cloud cover.]

Climate Change Driving Extremism

By Mary Anna Mancuso, Real Clear Energy, Nov 20, 2023

https://www.realclearenergy.org/articles/2023/11/20/climate_change_driving_extremism_994006.html

“Climate change is not just an environmental crisis; it is a threat multiplier, exacerbating existing social, economic, and political vulnerabilities. As resources become limited, communities are displaced, and traditional ways of life are disrupted, the stage is set for a dangerous cocktail of discontent and desperation.”

“Mary Anna Mancuso is a political strategist and a spokesperson for RepublicEn.org, a growing group of conservatives who care about climate change.”

[SEPP Comment: Science ignorance has no political ideology.]

Questioning the Orthodoxy – US National Climate Assessment

Burn Acreage Fraud In The 2023 National Climate Assessment

By Tony Heller, His Blog, Nov 30, 2023

Video: <https://realclimatescience.com/2023/11/burn-acreage-fraud-in-the-2023-national-climate-assessment-2/#gsc.tab=0>

Text: <https://realclimatescience.com/2023/11/burn-acreage-fraud-in-the-2023-national-climate-assessment/#gsc.tab=0>

‘Embarrassing’: Climate Expert Explains What’s Wrong With The White House’s New Climate Report

By Chris White, Daily Caller, Nov 24, 2023

<https://dailycaller.com/2018/11/24/climate-change-donald-trump-report/>

“The scientists who wrote the National Climate Assessment (NCA) used unreliable information that exaggerates the risks global warming poses, University of Colorado Prof. Roger Pielke Jr.

noted in a series of tweets. He fears the report will make it easier for critics to dismiss future climate studies.”

National Climate Assessment Math

By Tony Heller, His Blog, Dec 1, 2023

<https://realclimatescience.com/2023/12/national-climate-assessment-math/#gsc.tab=0>

“The 2023 National Climate Assessment includes this graph. Besides the fact it has nothing to do with climate, they are projecting that one third of US electricity is going to come from solar – an energy source which is of little or no use two thirds of the time. That would require 100% of US electricity from solar during times it is available.”

[SEPP Comment: 55% of electricity generation to be from wind and solar by 2050?]

‘Cherry-Picking Of Experts’: Biden’s Landmark Climate Report Authored By Eco-Activists Linked To Liberal Dark Money

By Nick Pope, Daily Caller, Nov 29, 2023

https://dailycaller.com/2023/11/29/biden-landmark-climate-report-activists/?pnspid=ruJqCzVEKvIC1Pec_i2mH8LUtg2hVMZuceGixrZtrB5mETzGrZkud_NpeFW3mblk4LICPajl

If only they were just in it for the money

By John Robson, Climate Change Nexus, Nov 22, 2023

<https://climatediscussionnexus.com/2023/11/22/if-only-they-were-just-in-it-for-the-money/>

Questioning the Orthodoxy

Five Reasons Why Climate Skepticism And Dissent Are Important

By I & I Editorial Board, Nov 30, 2023

<https://issuesinsights.com/2023/11/30/five-reasons-why-climate-skepticism-and-dissent-are-important/>

“The constant screeching over man-made global warming is simply a pathway to accumulating ever-greater political power and control.”

“Skepticism makes us engage in critical thinking, protects us from manipulation, and helps us retain objectivity, which was lost long ago by a majority of climate researchers, policymakers and journalists.”

New Study Finds The Post-1900 CO2 Rise Has Not Discernibly Altered The Greenhouse Effect

By Kenneth Richard, No Tricks Zone, Nov 27, 2023

<https://notrickszone.com/2023/11/27/new-study-finds-the-post-1900-co2-rise-has-not-discernibly-altered-the-greenhouse-effect/>

Link to latest paper: **Revisiting the greenhouse effect—a hydrological perspective**

Demetris Koutsoyiannis & Christos Vournas, Hydrological Sciences Journal, Nov 24, 2023

<https://www.tandfonline.com/doi/abs/10.1080/02626667.2023.2287047>

Net Zero Progress

By Tony Heller, His Blog, Nov 30, 2023

<https://realclimatescience.com/2023/11/net-zero-progress/#gsc.tab=0>

“Traditionally colonial westerners have a difficult time accepting that they have made themselves irrelevant.”

[SEPP Comment: The graph from Our World In Data, shows emissions of CO2 from North America, Europe, and Australia are about one-third of world emissions.]

Natural Disasters Are Not Increasing — Really

By Kip Hansen, WUWT, Dec 1, 2023

<https://wattsupwiththat.com/2023/12/01/natural-disasters-are-not-increasing-really/>

Link to paper: **Is the number of global natural disasters increasing?**

By Gianluca Alimonti & Luigi Mariani, Environmental Hazards, Aug 7, 2023

<https://www.tandfonline.com/doi/abs/10.1080/17477891.2023.2239807>

From abstract: “The above result sits in marked contradiction to earlier analyses by two UN bodies (FAO and UNDRR), which predicts an increasing number of natural disasters and impacts in concert with global warming. Our analyses strongly refute this assertion as well as extrapolations published by UNDRR based on this claim.”

[SEPP Comment: UNDRR is United Nations Office for Disaster Risk Reduction and FAO is the Food and Agriculture Organization of the United Nations.]

As I See It: Climate change revisited

By Richard Hoyer, Corvallis Gazette-Times, Nov 25, 2023 [H/t Bernie Kepshire]

https://gazettetimes.com/news/local/as-i-see-it-climate-change-revisited/article_949ea4a5-c539-5b01-9d89-b75076e4b396.html?utm_source=spotim&utm_campaign=breaking-news&utm_medium=spotim_recirculation&lctg=c8f30700e922ea22&tn_email_eh1=98d551973e bd41dc0f60c6779089d8d635fddd35017b47a4e9d6ef2e759aad4b&spot_im_redirect_source=pitc &spot_im_comment_id=sp_mamkB0z4_949ea4a5-c539-5b01-9d89-b75076e4b396_c_2YkD2nd5Ggg7osQm1YKNWplUeed&spot_im_highlight_immediate=true

[SEPP Comment: Mentions the NIPCC reports as disputing IPCC claims.]

Another Climate Snow Job

By I & I Editorial Board, Nov 28, 2023

<https://issuesinsights.com/2023/11/28/another-climate-snow-job/>

“The climate cabal is a swarm of fanatics fully sold out to an authoritarian cause. Candor and honesty have no place in their world.”

[SEPP Comment: Graph using Rutgers University Global Snow Laboratory data shows Northern Hemisphere Snow Cover since October 1967 increasing by 2.09% per decade. NOAA officials claim snow cover is decreasing.]

Lowest Burn Acreage Of The Century

By Tony Heller, His Blog, Nov 24, 2023

<https://realclimatescience.com/2023/11/lowest-burn-acreage-of-the-century/#gsc.tab=0>

Net Zero By 2050 Is a “Suicide Pact”

By Thorpe Watson, Posted by Citizens' Task Force on Wind Power – Maine, Nov 21, 2023

<https://www.windtaskforce.org/m/blogpost?id=4401701%3ABlogPost%3A257055>

New Study: CO2 Emission Rates From Natural Sources Are Up To 6 Times Larger Than From Humans

By Kenneth Richard, No Tricks Zone, Nov 23, 2023

<https://notrickszone.com/2023/11/23/new-study-co2-emission-rates-from-natural-sources-are-up-to-6-times-larger-than-from-humans/>

Link to paper: **Understanding Increasing Atmospheric CO2**

By Hermann Harde, Helmut-Schmidt-University Hamburg, Germany, Feb 17, 2023
<https://scienceofclimatechange.org/wp-content/uploads/Harde-2023-Understanding-Increasing-CO2.pdf>

After Paris!

COP28 Mind-Boggling Numbers

By Robert Lyman, Financial Post, Via Ron Clutz, Science Matters, Nov 29, 2023
<https://rclutz.com/2023/11/29/cop28-mind-boggling-numbers/>

Copathetic

By John Robson, Climate Discussion Nexus, Nov 29, 2023

<https://climatediscussionnexus.com/2023/11/29/copathetic/>

“Anyway, with 13 days and 70,000 attendees, we calculate there’s time for each participant to speak for 16 seconds assuming things run non-stop. Unless they’re just there to party. P.S. Remarkably, as of Nov. 24 the official website, complete with tension-relieving countdown clock promised that ‘Schedule of the events during the Summit will be published soon.’ They can’t even get the agenda sorted out in an entire year of crucial pre-meetings. But they can fix the weather. Riiight.”

Get ready for another pointless UN climate conference

By Steve Goreham, Washington Examiner, Nov 28, 2023

<https://www.washingtonexaminer.com/restoring-america/faith-freedom-self-reliance/get-ready-for-another-pointless-un-climate-conference>

VIJAY JAYARAJ: Jet-Set Hypocrites Want To Keep Billions In Poverty Around The World

By Vijay Jayaraj, Daily Caller, Nov 28, 2023

<https://dailycaller.com/2023/11/28/opinion-jet-set-hypocrites-want-to-keep-billions-in-poverty-around-the-world-vijay-jayaraj/>

Harris pledges \$3 billion to help developing countries with climate solutions

By Rachel Frazin, The Hill, Dec 20, 2023

<https://thehill.com/policy/energy-environment/4338920-harris-pledges-3-billion-to-help-developing-countries-with-climate-solutions/>

“A source told Reuters that the pledge was subject to fund availability.”

COP28: India doubles down on right to increase coal power and CO2 emissions

By Paul Homewood, Not a Lot of People Know That, Nov 30, 2023

<https://notalotofpeopleknowthat.wordpress.com/2023/11/30/cop28-india-doubles-down-on-right-to-increase-coal-power-and-co2-emissions/>

COP28: Who Matters? — Follow-up

By Kit Hansen, WUWT, Nov 28, 2023

<https://wattsupwiththat.com/2023/11/28/cop28-who-matters-follow-up/>

“84% of the increase in coal consumption, worldwide, is the result of additional coal-fired power plants in China alone. The only other significant contributor is Spain.”

[SEPP Comment: India is up and coming.]

Upcoming UN Climate Confab Could Have Largest Carbon Footprint In Event’s History

By Nick Pope, Daily Caller, Nov 24, 2023 [H/t Bernie Kepshire]

<https://dailycaller.com/2023/11/24/united-nations-climate-summit-carbon-footprint/>

[SEPP Comment: Are the World Economic Forum and COP in a race which will burn the most jet fuel for a meeting that does nothing but grandstanding?]

Jet-Set Climate Crusaders Try to Save Us from Carbon, Cows

By Larry Bell, Newsmax, Nov 30, 2023

<https://www.newsmax.com/larrybell/climate-crusaders-jets/2023/11/29/id/1144066/>

Biden Admin Pledges Millions To International ‘Climate Reparations’ Fund

By Nick Pope, Daily Caller, Nov 30, 2023

<https://dailycaller.com/2023/11/30/us-millions-climate-reparations-fund/?pnespid=tOFnGDsZOqwbxPLY.GzkF5KUphn.RsZ3Kviux.k4ohZm0z0nJbGW61VvhzSacvd0T2KbUNZk>

“It is unclear whether these pledged payments will actually be made in full, or whether taxpayer dollars will be used; it is possible that private dollars or more innovative funding mechanisms are used.”

COP28: Who Matters?

By Kip Hansen, WUWT, Nov 26, 2023

<https://wattsupwiththat.com/2023/11/26/cop28-who-matters/>

“In the Compare Totals view it is obvious that only five or six (maybe eight) of those Top 60 Countries actually matter as far as use of fossil fuels to produce electricity:”

COP28 should be the last COP

COPs are immoral because they deprive billions of the energy they need to prosper. They should be replaced by energy freedom conferences.

By Alex Epstein, His Blog, Nov 29, 2023

https://alexepstein.substack.com/p/cop28-should-be-the-last-cop?publication_id=513601&post_id=139265503&isFreemail=true&r=1ngcia

UN COP 28 is not a democracy

By David Wojick, CFACT, Nov 29, 2023

<https://www.cfact.org/2023/11/29/un-cop-28-is-not-a-democracy/>

Oil and gas producers pledge to cut methane emissions at UN climate talks

By Nick Robertson, The Hill, Dec 2, 2023

<https://thehill.com/policy/energy-environment/4338870-oil-gas-producers-pledge-cut-methane-emissions-un-climate-talks/>

[SEPP Comment: As shown by van Wijngaarden and Happer above, methane is an insignificant greenhouse gas in the real atmosphere.]

Change in US Administrations

Biden administration uses wartime authority to bolster energy efficient manufacturing

By Rachel Frazin, The Hill, Nov 17, 2023

<https://thehill.com/policy/energy-environment/4315744-biden-admin-wartime-authority-bolster-energy-efficient-manufacturing/>

[SEPP Comment: The Defense Production Act was enacted on September 8, 1950, during the Korean War, which started June 25, 1950]

Problems in the Orthodoxy

Canadian Green Electricity Push Blocked by Alberta

By Eric Worrall, WUWT, Nov 28, 2023

<https://wattsupwiththat.com/2023/11/28/canadian-green-electricity-push-blocked-by-alberta/>

Argentinian Reform: Subsoil Privatization (Javier Milei, meet Guillermo Yeatts)

By Robert Bradley Jr., Master Resource, Nov 30, 2023

<https://www.masterresource.org/privatization/argentina-energy-reform-yeatts-lives/>

[SEPP Comment: The issue is rights to minerals and to build infrastructure such as pipelines. In recent years Washington has canceled “required” auctions of oil and gas leases and pipelines in federally controlled properties demonstrating the importance of private ownership for national prosperity.]

Rare signs of democracy in New Zealand — Govt asking if UN “Treaty” is in the national interest?

By Jo Nova, Nov 29, 2023

<https://joannenova.com.au/2023/11/rare-signs-of-democracy-in-new-zealand-govt-asking-if-un-treaty-is-in-the-national-interest/>

Seeking a Common Ground

Removing Color, for a Sick Story

By Jennifer Marohasy, Her Blog, Nov 26, 2023

<https://jennifermarohasy.com/2023/11/removing-colour-for-a-sick-story/>

“Understanding coral colors is complicated.”

Political and Natural Hazards, ARC Part 3

By Jennifer Marohasy, Her Blog, Nov 19, 2023

<https://jennifermarohasy.com/2023/11/political-and-natural-hazards-arc-part-3/>

Suggests that the warming shown in atmospheric temperatures over the past few months came from a long El Niño coupled with the “cyclical changes in the orbit of the moon about the Earth that follows an 18.6-year cycle and not always regular in magnitude because the strength of the forcing will change depending on its alignment relative to the Sun, and because the forcing reverses from a maximum to a minimum declination every 9 years, in the same way that the tilt of the Earth reaches a maximum of 23.45° on June 22 (summer solstice in the northern hemisphere) crossing over to a minimum of -23.45° on December 21-22.

There are cycles within cycles, and by their very nature they can appear to keep reversing and they do affect the climate. If we took notice of them, we might be able to forecast when the Thames is likely to next ice over.”

[SEPP Comment: Criticizes speakers at the Alliance for Responsible Citizenship (ARC) conference in London who asserted that the warming of the 20th century was slow and steady. It was not. According to Yim, submarine volcanoes contributed to the long El Niño.]

Science, Policy, and Evidence

The U.S. And France Will Seek to Halt Private Funding for Coal Plants at COP28

By Charles Kennedy – Oil Price.com, Nov 21, 2023

<https://oilprice.com/Latest-Energy-News/World-News/US-And-France-Will-Seek-to-Halt-Private-Funding-for-Coal-Plants-at-COP28.html>

[SEPP Comment: Western suppression of the poor in the developing world with little physical evidence of harm?]

Models v. Observations

Forecasting the weather: Supercomputer or AI?

By David Whitehouse, Net Zero Watch, Nov 21, 2023

<https://www.netzerowatch.com/forecasting-the-weather-supercomputer-or-ai/>

#ECS in the real world: Masters 2013

By John Robson, Climate Change Nexus, Nov 22, 2023

<https://climatediscussionnexus.com/2023/11/22/ecs-in-the-real-world-masters-2013/>

“We’re finding a pattern in these ECS studies where the longer the title, the more it gives away the plot. In Masters’ case he, like the others, gathered up a data on air temperatures, changes in atmospheric CO2 levels, changes in ocean heat content etc. and started crunching numbers. But he also decided to compare what the real world was doing to what the world inside climate models was doing. And he noticed a difference.”

#ECS in the real world: Bengtsson and Schwartz 2013

By John Robson, Climate Discussion Nexus, Nov 29, 2023

<https://climatediscussionnexus.com/2023/11/29/ecs-in-the-real-world-bengtsson-and-schwartz-2013/>

Discusses: “Lennart Bengtsson and Stephen Schwartz in their paper ‘Determination of a lower bound on Earth’s climate sensitivity’. At any rate the lowest plausible value of ECS seems to be positive at least to some degree.”

[SEPP Comment: Their lower bound is more likely an upper bound.]

Measurement Issues -- Atmosphere

UAH Global Temperature Update for November, 2023: +0.91 deg. C

By Roy Spencer, His Blog, Dec 1, 2023

<https://www.drroyspencer.com/2023/12/uah-global-temperature-update-for-november-2023-0-91-deg-c/>

“The Version 6 global average lower tropospheric temperature (LT) anomaly for November 2023 was +0.91 deg. C departure from the 1991-2020 mean, statistically unchanged from the October, 2023 anomaly of +0.93 deg. C.

The linear warming trend since January 1979 still stands at +0.14 C/decade (+0.12 C/decade over the global-averaged oceans, and +0.19 C/decade over global-averaged land).”

Carbon Dioxide Movie Night: The Global Picture

By Chris Hall, WUWT, Dec 1, 2023

<https://wattsupwiththat.com/2023/12/01/carbon-dioxide-movie-night-the-global-picture/>

[SEPP Comment: The Orbital Carbon Observatory (OCO) satellite database is not the same as high-resolution transmission molecular absorption (HITRAN) database and does not provide the database for evaluating the effect of different greenhouse gases that HITRAN does.]

Changing Weather

The 2023 Atlantic Hurricane Season Was Average—Not 4th Busiest

By Paul Homewood, Not a Lot of People Know That, Dec 1, 2023

<https://notalotofpeopleknowthat.wordpress.com/2023/12/01/the-2023-atlantic-hurricane-season-was-average-not-4th-busiest/>

“The Atlantic Hurricane season has now officially ended, and as usual there is the usual willful misreporting:”

[SEPP Comment: One Cat 3 and above storm making landfall.]

The incredible vanishing U.S. tornado losses

By John Robson, Climate Change Nexus, Nov 22, 2023

<https://climatediscussionnexus.com/2023/11/22/the-incredible-vanishing-u-s-tornado-losses/>

“All together now: climate change is causing damage from extreme weather to get worse and worse. And don’t say you weren’t warned. As Roger Pielke Jr. notes, the Fourth US National Climate Assessment in 2017 declared ‘[T]here is reason to expect increased tornado frequency and intensity in a warming climate.’”

Germany Sees 2nd Warmest Autumn On Record...But It “Ends With A Winter Finale”

By P Gosselin, No Tricks Zone, Dec 1, 2023

<https://notrickszone.com/2023/12/01/germanys-sees-2nd-warmest-autumn-on-record-but-ends-with-a-winter-finale/>

“Autumn 2023 in Germany also was also about 25% sunnier than normal, with a mean of 392 hours of sunshine. November, on the other hand, was cloudier than normal. The sun shined just 42 hours, i.e. 25% less than normal.”

Increasing Cold, Snow Cast Doubt Over Claim Of Rapid Warming As North Freezes

By Christian Freuer, Electroverse, EIKE Cold Report No. 33 (excerpts), Via P Gosselin, No Tricks Zone, Nov 28, 2023

<https://notrickszone.com/2023/11/28/increasing-cold-snow-cast-doubt-over-claim-of-rapid-warming-as-north-freezes/>

High Pressure and the Northwest's Low-Cloud Affliction

By Cliff Mass, Weather Blog, Nov 29, 2023

<https://cliffmass.blogspot.com/2023/11/high-pressure-and-northwests-white.html>

“Cold, cloudy, foggy and icy. Yuk.... Persistent high pressure. [from] A strong ridge of high pressure aloft.

In the summer, such a pattern would give us a heat wave. But in winter we get a cold wave! But why?”

The Great Storm of 1987

By Paul Homewood, Not a Lot of People Know That, Dec 21, 2023

<https://notalotofpeopleknowthat.wordpress.com/2023/11/21/the-great-storm-of-1987/>

“No warning from the weathermen.”

A half-century history of tornado-days in Missouri, USA

By John Robson, Climate Change Nexus, Nov 22, 2023

<https://climatediscussionnexus.com/2023/11/22/a-half-century-history-of-tornado-days-in-missouri-usa/>

“From the CO2Science.org archive:”

Changing Climate

Changing History to Control You

By Paul Homewood, Not a Lot of People Know That, Nov 29, 2023

<https://notalotofpeopleknowthat.wordpress.com/2023/11/29/changing-history-to-control-you/>

Video: “Much of what Paul Burgess says is corroborated by HH Lamb’s work.”

Frozen library of ancient ice tells tales of climate's past

By Camille Bas-Wohlert, Copenhagen (AFP) Nov 22, 2023

https://www.terraviva.com/reports/Frozen_library_of_ancient_ice_tells_tales_of_climates_past_99.html

“Those samples contain extracts from 120,000 years ago, during the most recent interglacial period when air temperatures in Greenland were 5C higher than today.”

Changing Seas

October 2023 Ocean Cooling Off

By Ron Clutz, Science Matters, Nov 27, 2023

<https://rclutz.com/2023/11/27/october-2023-ocean-cooling-off/>

A 4500-year reconstruction of sea surface temperature variability at decadal time-scales off North Iceland

By Paul Homewood, Not a Lot of People Know That, Nov 21, 2023

<https://notalotofpeopleknowthat.wordpress.com/2023/11/21/a-4500-year-reconstruction-of-sea-surface-temperature-variability-at-decadal-time-scales-off-north-iceland-2/>

Are King Tides a Threat During the Next Two Months?

By Cliff Mass, Weather Blog, Nov 27, 2023

<https://cliffmass.blogspot.com/2023/11/are-king-tides-threat-during-next-two.html>

Changing Cryosphere – Land / Sea Ice

New Antarctic All-Time Cold Record Flies in the Face of Media Reporting

By Anthony Watts, WUWT, Nov 28, 2023

<https://wattsupwiththat.com/2023/11/28/new-antarctic-all-time-cold-record-flies-in-the-face-of-media-reporting/>

[SEPP Comment: The reading is for Byrd station with an elevation of 5,095 feet was minus 45.54 C (-49.972°C). This SH winter, Ken Haapala noticed a reading of minus 107°F (minus 77°C) at Vostok Station, which has an elevation of 11,444 feet. At minus 109°F, (sea level pressure) carbon dioxide gas changes phases directly to solid.]

Western Hudson Bay polar bears on their way offshore to hunt seals: freeze-up has begun

By Susan Crockford, Polar Bear Science, Nov 30, 2023

<https://polarbearscience.com/2023/11/30/western-hudson-bay-polar-bears-on-their-way-offshore-to-hunt-seals-freeze-up-has-begun/>

“That makes this year a bit later than usual (average is 16 November) but is not one of the extremely late freeze-ups, ... However, so far, there have been no reports from this region of incidents of cannibalism, starving bears found wandering the landscape like zombies, or desperate attacks on people that polar bear specialists have warned us to expect.”

November 2023 Arctic Ice Doing Well

By Ron Clutz, Science Matters, Dec 1, 2023

<https://rclutz.com/2023/12/01/november-2023-arctic-ice-doing-well/>

Greenland ice sheet: going, going... growing!

By John Robson, Climate Discussion Nexus, Nov 29, 2023

<https://climatediscussionnexus.com/2023/11/29/greenland-ice-sheet-going-going-growing/>

From the CO2Science Archive:

New Study: Modern Sea Ice Extent Is Nearly The Highest In 9000 Years Across the Arctic
By Kenneth Richard, NO Tricks Zone, Nov 20, 2023

<https://notrickszone.com/2023/11/20/new-study-modern-sea-ice-extent-is-nearly-the-highest-in-9000-years-across-the-arctic/>

Link to paper: **Biomarker Records of Environmental Shifts on the Labrador Shelf During the Holocene**

By Henriette Kolling, et al., Paleoceanography and Paleoclimatology, Sep 2, 2023

<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2022PA004578>

[SEPP Comment: *The Labrador Shelf (sea) connects Labrador with Greenland. It does not go across the Arctic.*]

Where did all this ice come from?

By John Robson, Climate Discussion Nexus, Nov 29, 2023

<https://climatediscussionnexus.com/2023/11/29/where-did-all-this-ice-come-from/>

World's Largest Iceberg, Three Times The Size Of NYC, Starts Moving For First Time In Over 30 Years

By John Oyewale, Dailey Caller, Nov 25, 2023

<https://dailycaller.com/2023/11/25/a23a-worlds-largest-iceberg-moves-antarctica/>

Changing Earth

Study examines how massive 2022 eruption changed stratosphere chemistry and dynamics

By Leah Burrows, Phys.org, Nov 20, 2023

<https://phys.org/news/2023-11-massive-eruption-stratosphere-chemistry-dynamics.html>

Link to paper; **Impact of the Hunga Tonga volcanic eruption on stratospheric composition**

By David M. Wilmouth, et al., PNAS, Oct 30, 2023

<https://www.pnas.org/doi/10.1073/pnas.2301994120>

Agriculture Issues & Fear of Famine

Record Heat And Drought Produces Record Corn Crop

By Tony Heller, His Blog, Nov 25, 2023

<https://realclimatescience.com/2023/11/record-heat-and-drought-produces-record-corn-crop/#gsc.tab=0>

[SEPP Comment: *Corn doesn't read the headlines?*]

COP28 UN climate summit to officially target meat eating! 'Nations will be told to curb their excessive appetite for meat' to enforce UN plan for 'food's climate transition.'

By Marc Morano, Climate Depot, Nov 27, 2023

<https://www.climatedepot.com/2023/11/27/cop28-un-climate-summit-to-officially-target-meat-eating-nations-will-be-told-to-curb-their-excessive-appetite-for-meat-to-enforce-un-plan-for-foods-climate-transition/>

[SEPP Comment: *Rather than wine with cheese, substitute wine with fresh grasshopper or cockroach? The UN graph lumps meats and fisheries together. So, no raw fish just raw grasshopper or cockroach?*]

Eat Less Meat Is Message for Rich World in Food's First Net Zero Plan

By Agnieszka de Sousa, Yahoo, Nov 2, 2023

https://finance.yahoo.com/news/eat-less-meat-message-rich-010000280.html?guccounter=1&guce_referrer=aHR0cHM6Ly93d3cucmVhbGNsZW5lcm d5Lm9yZy8&guce_referrer_sig=AQAAAL5-lezntzgDQ3Xd0726L0ZUt52nt4FGrbIP0Y2o2L_3bb44jcE9hMUfIy_JNttA7NKDrP0mG769uajEnfFUpxuadJoZI10fGE65a-7W5iWNenePTqPL6Z_A0iW59-mDjHuRNecPz mhAoOeVGjSkdABMyVgldKru13s7OMQww7OU

Lowering Standards

NASA Leadership to Participate in Global Climate Change Conference

Press Release By Roxana Bardan, NASA, Nov 27, 2023 [H/t William Readdy]

<https://www.nasa.gov/news-release/nasa-leadership-to-participate-in-global-climate-change-conference/>

Denying Scientific Principles (Part 2)

By Tony Heller, His Blog, Nov 30, 2023

Video: <https://realclimatescience.com/2023/11/denying-scientific-principles-part-2-2/#gsc.tab=0>

Text: <https://realclimatescience.com/2023/11/denying-scientific-principles-part-2/#gsc.tab=0>

[SEPP Comment: NOAA data tampering.]

Unstable Models: NOAA Substantially Cools Its December Mean Temperature Forecast For Europe

By P Gosselin, No Tricks Zone, Nov 25, 2023

<https://notrickszone.com/2023/11/25/unstable-models-noaa-substantially-cools-its-december-mean-temperature-forecast-for-europe/>

“2°C downward correction”

Lord Frost calls for Bank of England climate role to go

Press Release, Net Zero Watch, Nov 28, 2023

<https://www.netzerowatch.com/frost-bank-of-england-climate-role/>

“Many witnesses said the climate remit, in particular, was problematic, suggesting that it risked ‘jeopardizing the Bank’s ability to prioritize its primary objectives’.”

Down with housing

By John Robson, Climate Discussion Nexus, Nov 29, 2023

<https://climatediscussionnexus.com/2023/11/29/down-with-housing/>

“The Verge gives us the views of ‘Carlos Martín, the project director for the Remodeling Futures Program at the Joint Center for Housing Studies of Harvard University’ which certainly makes one wonder, again, what they’re teaching in schools nowadays. Remember when universities had Departments of English, Mathematics, History and, dare we say it, Theology? Now it’s the ‘Remodeling Futures Program’.”

BBC Reporter Flies Around The World To Lecture Us On Climate Change!

By Paul Homewood, Not a Lot of People Know That, Nov 19, 2023

<https://notalotofpeopleknowthat.wordpress.com/2023/11/19/bbc-reporter-flies-around-the-world-to-lecture-us-on-climate-change/>

Communicating Better to the Public – Use Yellow (Green) Journalism?

He won a Nobel Prize. Then he started denying climate change.

John Clauser shared the Nobel [Prize] in physics last year. Now he's a self-described 'denier' of the overwhelming scientific consensus on a warming planet.

By Maxine Joselow, The Washington Post, Nov 16, 2023

<https://www.washingtonpost.com/climate-environment/2023/11/16/john-clauser-nobel-climate-denial/>

Voice of America Is a Superspreader of Misinformation About Human Health and Climate Change

By Linnea Lueken, Climate Realism, Nov 28, 2023

<https://climaterealism.com/2023/11/voice-of-america-is-a-superspreader-of-misinformation-about-human-health-and-climate-change/>

Why We Are Still Searching For Fossil Fuels, BBC

By Paul Homewood, Not a Lot of People Know That, Nov 19, 2023

<https://notalotofpeopleknowthat.wordpress.com/2023/11/19/why-we-are-still-searching-for-fossil-fuels-bbc/>

Channel 4 Biased? Whatever Next!

By Paul Homewood, Not a Lot of People Know That, Nov 23, 2023

<https://notalotofpeopleknowthat.wordpress.com/2023/11/23/channel-4-biased-whatever-next/>

“And Series 1 is based on some outright dishonesty and misinformation:

First off, their Battle Bus claim that ‘We give the oil and gas industry £42 million a week in tax breaks.’

However, the official data shows that taxpayers don't pay a penny to the oil and gas sector.

Instead, North Sea oil and gas paid £9 billion in tax last year:”

Tomorrow Tonight: Ireland 2050

By Paul Homewood, Not a Lot of People Know That, Nov 21, 2023

<https://notalotofpeopleknowthat.wordpress.com/2023/11/21/tomorrow-tonight-ireland-2050/>

“Ivor Cummings does a really good job taking apart the dystopian nonsense:”

Daily Mail: COP28 will be an Oil and Gas Contract Bazaar

By Eric Worrall, WUWT, Nov 28, 2023

<https://wattsupwiththat.com/2023/11/28/daily-mail-cop28-will-be-an-oil-and-gas-contract-bazaar/>

The future is now, or something

By John Robson, Climate Change Nexus, Nov 22, 2023

<https://climatediscussionnexus.com/2023/11/22/the-future-is-now-or-something/>

Communicating Better to the Public – Exaggerate, or be Vague?

Climate change already reducing global GDP: report

By AFP Staff Writers, Paris (AFP) Nov 28, 2023

[https://www.energy-](https://www.energy-daily.com/reports/Climate_change_already_reducing_global_GDP_report_999.html)

[daily.com/reports/Climate_change_already_reducing_global_GDP_report_999.html](https://www.energy-daily.com/reports/Climate_change_already_reducing_global_GDP_report_999.html)

No link to the report from the University of Delaware.

Communicating Better to the Public – Make things up.

ECIU's Disinformation About EVs

By Paul Homewood, Not a Lot of People Know That, Nov 30, 2023

<https://notalotofpeopleknowthat.wordpress.com/2023/11/30/ecius-disinformation-about-evs/>

“Ahead of the Government’s Zero Emission Vehicle Mandate’s being debated in Parliamentary committee tomorrow, Colin Walker, Head of Transport at the Energy & Climate Intelligence Unit, said: ‘The Government’s impact assessment for the ZEV mandate clearly states that, once you subtract the policy’s costs from its economic benefits, the net benefit to the UK economy is £39bn, or around £1,400 per household.

That’s because the ZEV mandate will accelerate the UK’s uptake of EVs, and EVs are much cheaper to own and operate. Research by the ECIU has found that a Nissan Leaf, compared to a petrol equivalent, can save its owner over £1200 a year in fuel costs alone.”

Has 1984 finally arrived?

By Paul Homewood, Not a Lot of People Know That, Nov 21, 2023

<https://notalotofpeopleknowthat.wordpress.com/2023/11/18/has-1984-finally-arrived/>

[SEPP Comment: Essay by Euan Mearns on the phony 97% consensus.]

Communicating Better to the Public – Do a Poll?

New Study: 67% Of Scientific Papers Can Be Said To Reject The AGW Hypothesis...

By Kenneth Richard, No Tricks Zone, Nov 30, 2023

<https://notrickszone.com/2023/11/30/new-study-68-of-scientific-papers-can-be-said-to-reject-the-agw-hypothesis/>

Link to paper: **Ninety-Nine Percent? Re-Examining the Consensus on the Anthropogenic Contribution to Climate Change**

By David Dentelski, et al., Climate, Oct 30, 2023

<https://www.mdpi.com/2225-1154/11/11/215>

“In a new study, six scientists (Dentelski et al., 2023) effectively eviscerate a methodologically flawed 2021 study (Lynas et al.) that claims 99.53% of 3,000 scientific papers examined (by subjectively classifying papers based only on what is written in the abstracts) support the anthropogenic global warming, or AGW, position.”

Communicating Better to the Public – Use Propaganda

Exploding harder

By John Robson, Climate Discussion Nexus, Nov 29, 2023

<https://climatediscussionnexus.com/2023/11/29/exploding-harder/>

“UN Secretary-General António Guterres’s ambition for the upcoming COP conference is that ‘The response to the global stocktake must light the fuse to an explosion of ambition in 2025.’ So his metric for success isn’t achieving anything or even having ambitions to, it’s having ambitions to have ambitions.”

[SEPP Comment: Doubling down on the meaningless babble rather than physical evidence.]

Communicating Better to the Public – Use Children for Propaganda

Baby It’s Cold Inside!

By Paul Homewood, Not a Lot of People Know That, Nov 28, 2023

<https://notalotofpeopleknowthat.wordpress.com/2023/11/28/baby-its-cold-inside/>

Communicating Better to the Public – Protest

Climate Protestors Blockade a Port, Demand a 75% Coal Tax

By Eric Worrall, Nov 26, 2023

<https://wattsupwiththat.com/2023/11/26/climate-protestors-blockade-a-port-demand-a-75-coal-tax/>

[SEPP Comment: Why not protest in China?]

Expanding the Orthodoxy

Fossil fuel industry keys in on unproven recycling methods to prop up plastics

By Saul Elbein, The Hill, Nov 22, 2023

<https://thehill.com/policy/equilibrium-sustainability/4322021-fossil-fuel-industry-recycling-plastics/>

“That profusion of plastic is an issue ‘of deep concern,’ wrote a confederation of 60 U.N. member states calling itself the High Ambition Coalition to End Plastic Pollution.”

“For this group, ‘there is no difference between plastic and plastic pollution — plastic is pollution,’ as Rafael Eudes of Brazil’s Aliança Resíduo Zero, or Zero Waste Alliance, said in a statement.”

[SEPP Comment: More international fanaticism “at the third Intergovernmental Negotiating Committee meeting (INC-3) in Nairobi, Kenya — part of a process legally bound to secure an international agreement on plastics by 2024.”]

Questioning European Green

Major Setback For German Green Transformation As Top Court Rules Funding Unconstitutional!

By P Gosselin, NO Tricks Zone, Nov 21, 2023

<https://notrickszone.com/2023/11/21/major-setback-for-german-green-transformation-as-top-court-rules-funding-unconstitutional/>

“The real kicker, however, is that the Federal Constitutional Court’s decision is likely to affect not only the so-called ‘climate and transformation fund’ of the federal government, but also other ‘special funds’ of the federal government, from which it wants to pay electricity subsidies for industry, for example, after initially borrowing a lot of money to destroy the reliable energy supply in Germany.”

Environmental Levies To Cost £95bn In Next Six Years

By Paul Homewood, Not a Lot of People Know That, Dec 24, 2023

<https://notalotofpeopleknowthat.wordpress.com/2023/11/24/environmental-levies-to-cost-95bn-in-next-six-years/>

“Not all of the extra costs incurred because of policy are included. For instance, there is no mention of the costs of grid upgrades, system balancing costs and constraint payments – all the direct result of increased renewable generation.”

Net Zero Electricity Fantasies to Cost British Consumers £100 Billion Over Next Six Years

By Chris Morrison, The Daily Sceptic, Nov 25, 2023

<https://dailysceptic.org/2023/11/25/net-zero-electricity-fantasies-to-cost-british-consumers-100-billion-over-next-six-years/>

“But it might be asked, what is £100 billion when an almost complete dismantling of modern economic society is being planned? A mere down payment on wealth destruction on an unimaginable scale.”

[SEPP Comment: States Paul Homewood’s estimates of the costs of UK energy policies, immediately above, are optimistic!]

One-meter rule for heat pumps to be scrapped.

By Paul Homewood, Not a Lot of People Know That, Dec 24, 2023

<https://notalotofpeopleknowthat.wordpress.com/2023/11/24/one-metre-rule-for-heat-pumps-to-be-scrapped/>

“Under the plans, buried in the detail of the Autumn Statement, people would no longer have to fit the devices at least one meter from neighboring properties.”

Questioning Green Elsewhere

GOREHAM: World Leaders Ignore Growing Safety Issues With Green Energy

By Steve Goreham, Daily Caller, Nov 22, 2023

<https://dailycaller.com/2023/11/22/goreham-green-transition-e-bike-fire-nuclear/>

The Green Energy Wall Gradually Coming Into Focus

By Francis Menton, Manhattan Contrarian, Nov 24, 2023

<https://www.manhattancontrarian.com/blog/2023-11-24-the-green-energy-wall-gradually-coming-into-focus>

“The best thing to end the wind/solar craziness will be to have one or two jurisdictions fail spectacularly as a lesson to everyone else. I wouldn’t have wanted my own New York to volunteer for that role, but that may be what’s happening.”

What goes around

By John Robson, Climate Change Nexus, Nov 22, 2023

<https://climatediscussionnexus.com/2023/11/22/what-goes-around-2/>

“The contempt for ordinary people and the wisdom of practical experience in such proposals is amazing. Like the one for ‘carbon passports’ to stop the proles from taking all those planet-destroying vacations to luxury resorts better employed hosting climate conferences to which participants travel by private jet.”

Green Jobs

Ford Scales Back Capacity Of New Battery Plant By 42%

By Julianne Geiger, Oil Price.com., Nov 21, 2023

<https://oilprice.com/Latest-Energy-News/World-News/Ford-Scales-Back-Capacity-Of-New-Battery-Plant-By-42.html>

“Michigan Governor Gretchen Whitmer highlighted the deal for the new battery plant back in February and signed a \$1.3 billion spending package in early March that earmarked \$630 million to support site preparation in Marshall—half of which was to go to land development and half to road improvements. This was on top of a \$210 million grant to Ford and a \$772 million tax break to the automaker, not to mention a \$36 million loan to the Marshall Area Economic Development Alliance.”

Funding Issues

Renewables facing “Enron-style collapse” says Venture Capitalist — Sustainability has become a dirty word

By Jo Nova, Her Blog, Nov 21, 2023

<https://joannenova.com.au/2023/11/renewables-facing-enron-style-collapse-says-venture-capitalist-sustainability-has-become-a-dirty-word/>

Billions of Dollars of Aussie Retirement [Industry] Funds to be Gambled on Britain’s Failing Net Zero Push

By Eric Worrall, WUWT, Nov 26, 2023

<https://wattsupwiththat.com/2023/11/26/aussie-retirement-giant-gambles-billions-on-britains-failed-net-zero-push/>

But you deniers have all the money

By John Robson, Climate Discussion Nexus, Nov 29, 2023

<https://climatediscussionnexus.com/2023/11/29/but-you-deniers-have-all-the-money/>

“If you have a sad tale of climate calamity, you might already be a winner. ‘Do you have a climate disaster story to tell?’ asks the ‘Climate Disaster Project’ which is ‘coordinated’ at that renowned home of hard science, ‘the University of Victoria’s Faculty of Fine Arts in its Department of Writing.’ ... And they hand out money too, an average of \$500 per charismatic ‘survivor’. Not that they’re buying coverage exactly. Just in case. But where do they get all this money?”

The Political Games Continue

Tidbits

By John Robson, Climate Discussion Nexus, Nov 29, 2023

<https://climatediscussionnexus.com/2023/11/29/tidbits-40/>

“More proof that politicians should not be trusted with your economy or even your lexicon: The Washington Times reports that ‘New Jersey will outlaw the sales of new gas-powered cars to combat climate change after the state Department of Environmental Protection officially adopted a rule forcing automakers to transition to zero-emission fleets by 2035. Gov. Phil Murphy, a Democrat, insisted the directive will ‘preserve consumer choice and promote affordability’ by forcing you to buy something expensive.”

Litigation Issues

UN criticizes ‘severe’ Just Stop Oil sentences

By Paul Homewood, Not a Lot of People Know That, Nov 21, 2023

<https://notalotofpeopleknowthat.wordpress.com/2023/11/21/un-criticises-severe-just-stop-oil-sentences/>

“Long jail sentences handed to two Just Stop Oil climate campaigners could stifle protest, the United Nations has warned the UK government.”

[SEPP Comment: The UN promoting public disorder?]

Amicus Brief Details Climate Litigation Campaign’s Political Origins

By Staff, Climate Litigation Watch, Government Accountability & Oversight, Nov 29, 2023

<https://climatelitigationwatch.org/amicus-brief-details-climate-litigation-campaigns-political-origins/>

Don’t Let Trial Lawyers Create Radical American Energy Policy

By Gil Gutknecht, Real Clear Energy, Nov 29, 2023

https://www.realclearenergy.org/articles/2023/11/29/dont_let_trial_lawyers_create_radical_american_energy_policy_995723.html

More bad news

By John Robson, Climate Change Nexus, Nov 22, 2023

<https://climatediscussionnexus.com/2023/11/22/more-bad-news/>

“See, renewables are such a great deal that they’re a money pit. EU Observer says:

‘It is estimated that Germany needs €240bn in additional climate investment until 2045 and ‘25 percent of that will never have a business case,’ said Hafele.” [“who is the executive director of ZOE, a think tank headquartered in Cologne, Germany.]

Tidbits

By John Robson, Climate Change Nexus, Nov 22, 2023

<https://climatediscussionnexus.com/2023/11/22/tidbits-39/>

“Speaking of courts, Canada’s Environment Minister Steven Guilbeault just got the smackdown from the Federal Court for having abused the Canadian Environmental Protection Act and common sense by labeling plastics of the sort used in drinking straws and grocery bags ‘toxic’ so as to ban them under a statute intended to target things that are poisonous rather than so safe you can carry food home in them or even consume it through them.”

Subsidies and Mandates Forever

Biden administration rolls out rules for foreign entities in electric car tax credit eligibility

By Zack Budryk, The Hill, Dec 1, 2023

<https://thehill.com/policy/energy-environment/4333913-electric-vehicle-tax-credit-eligibility-foreign-entities-rules/>

First They Came for the Smokers...

By William Sullivan, American Thinker, Nov 21, 2023

https://www.americanthinker.com/articles/2023/11/first_they_came_for_the_smokers.html

Link to article: **Biden invokes wartime powers to fund electric heaters as he cracks down on gas appliances**

By Thomas Catenacci, Fox News, Accessed Nov 24, 2023

<https://www.msn.com/en-us/news/us/biden-invokes-wartime-powers-to-fund-electric-heaters-as-he-cracks-down-on-gas-appliances/ar-AA1k73if>

“Under the actions announced Friday, the DOE will send millions of dollars to companies like Copeland, Honeywell International, Mitsubishi Electric and York International Corporation, all of which are billion-dollar multinational corporations. The projects will advance manufacturing of industrial, commercial, and residential heat pump technology.”

Govt To Pay £350 For EV Chargers In Flats!!

By Paul Homewood, Not a Lot of People Know That, Dec 24, 2023

<https://notalotofpeopleknowthat.wordpress.com/2023/11/24/govt-to-pay-350-for-ev-chargers-in-flats/>

“So, to recap, if you live in a flat [apartment] and therefore cannot charge your EV in your drive, the government will pay you £350 towards a charging point in your home!

I assume they expect you to stick your car in the lift [elevator] and push it into your kitchen to charge up.”

Will We Subsidise The Import Of Chinese EVs?

By Paul Homewood, Not a Lot of People Know That, Nov 30, 2023

<https://notalotofpeopleknowthat.wordpress.com/2023/11/30/will-we-subsidise-the-import-of-chinese-evs/>

Energy Issues – Non-US

Germany: You will own a car and a heater but you can’t use them

By Jo Nova, Her Blog, Nov 30, 2023

<https://joannenova.com.au/2023/11/germany-you-will-own-a-car-and-a-heater-but-you-cant-use-them/>

“Germany’s residential grid operators will be empowered to restrict the flow of power to heat pumps and electric vehicle (EV) chargers from 2024 in order to preserve the stability of the grid, which is suffering from chronic underinvestment.”

[SEPP Comment: Or chronic overinvestment in unstable electricity generators such as wind & solar?]

Wind Power: Creating a New Dependency

By Andrew Stuttaford, National Review, Nov 27, 2023

<https://www.nationalreview.com/corner/wind-power-creating-a-new-dependency/>

“One of the arguments being used in Britain to justify the country’s immense investment in wind power is that it will make the U.K. less reliant on foreign energy suppliers. Oddly, those making that pitch rarely mention how additional steps could be taken towards that objective by increasing North Sea oil and gas production and, onshore, lifting the suspension on fracking, but there we are.”

CfD Indexation

By Paul Homewood, Not a Lot of People Know That, Dec 25, 2023

<https://notalotofpeopleknowthat.wordpress.com/2023/11/25/cfd-indexation/>

“As all of the attention was on offshore wind, I did not notice the price for onshore. £64 of course equates to £87.91/MWh at current prices.

This gives the lie to the much-touted claim that onshore wind is the cheapest source of electricity. As I reported the other day, the wholesale price in the last few months has ranged from about £80 to £100, whilst the DSENZ levelized costings of CCGT power work out at about £80/MWh.”

India hopes cloud seeding can wash away deadly smog

By Abhaya Srivastava, New Delhi (AFP) Nov 28, 2023

https://www.terradaily.com/reports/India_hopes_cloud_seeding_can_wash_away_deadly_smog_99.html

[SEPP Comment: Modern coal-fired power plants with appropriate filters will eliminate smog.]

Energy Issues – Australia

Australian government throws giant pile of money at renewables — so big, the cost is a secret

By Jo Nova, Her Blog, Nov 23, 2023

<https://joannenova.com.au/2023/11/australian-government-throws-giant-pile-of-money-at-renewables-so-big-its-a-secret/>

Energy Issues -- US

Bone-Chilling

Last Christmas, the U.S. narrowly averted an energy disaster that would have decimated New York City and killed thousands.

By Robert Bryce, His Blog, Nov 25, 2023

<https://robertbryce.substack.com/p/bone-chilling>

Link to report: **Winter Storm Elliott Report: Inquiry into Bulk-Power System Operations During December 2022**

FERC, NERC and Regional Entity Staff Report, October 2023

<https://www.ferc.gov/media/winter-storm-elliott-report-inquiry-bulk-power-system-operations-during-december-2022>

New York narrowly missed a disaster last Christmas Eve: gas pipes froze and 127GW of electricity vanished

By Jo Nova, Her Blog, Nov 28, 2023

<https://joannenova.com.au/2023/11/new-york-narrowly-missed-a-disaster-last-christmas-eve-gas-pipes-froze-and-90gw-of-electricity-vanished/>

Hate to Say We Told You So: Federal Energy Data Paint Ugly Winter Picture

By David Holt, Real Clear Energy, Nov 27, 2023

https://www.realclearenergy.org/articles/2023/11/27/hate_to_say_we_told_you_so_federal_energy_data_paint_ugly_winter_picture_995231.html

The Concerning Energy Cost of Artificial Intelligence

By Felicity Bradstock, Oil Price.com, Nov 29, 2023

<https://oilprice.com/Energy/Energy-General/The-Concerning-Energy-Cost-of-Artificial-Intelligence.html>

Save The Salmon, Kill The Humans?

By I & I Editorial Board, Dec 1, 2023

<https://issuesinsights.com/2023/12/01/save-the-salmon-kill-the-humans/>

“That’s a fool’s errand right there. But now they are talking about eliminating a carbon-free energy source to ... save fish? And then spend \$1 billion to make up for the loss?”

[SEPP Comment: Though subject to the whims of nature, hydropower is far more predictable and readily dispatchable than wind and solar, plus it has its own storage.]

At The New York Crazy Klimate Konference

By Francis Menton, Manhattan Contrarian, Nov 18, 2023

<https://www.manhattancontrarian.com/blog/2023-11-18-at-the-new-york-krazy-klimate-konference>

“From the evidence of this Konference, it is completely clear that the people running New York’s supposed energy transition do not have the slightest hint of competence. I suppose that’s for the better, because people who were actually competent could keep the charade going for a much longer time. With this crowd, the collapse will come sooner, although not nearly soon enough.”

Blue State Residents Are Paying Way More For Energy Than Red States, New Report Shows

By Nick Pope, Daily Caller, Nov 24, 2023

<https://dailycaller.com/2023/11/24/blue-states-energy-costs-report/>

Link to report: **Energy Affordability Report: A Snapshot of Electricity Prices and Energy Policies by State**

By Staff, American Legislative Exchange Council (ALEC), 2023

https://alec.org/wp-content/uploads/2023/11/ALEC_Energy_Affordability_Vol.3.pdf

Some More Energy Reality In New York City

By Francis Menton, Manhattan Contrarian, Nov 28, 2023

<https://www.manhattancontrarian.com/blog/2023-11-28-some-more-energy-reality-in-new-york-city>

“That’s over \$176,000 per unit, just for the heat pump conversion. At a current financing rate of about 7%, that would mean an addition to rent of well over \$1000 per month per unit just to finance the purchase and installation of the heat pump system. For comparison, NYCHA [New

York City Housing Authority] here gives the average monthly rent of its apartments as \$557 in 2023.”

Washington’s Control of Energy

“Wartime” Climate Policy vs. Natural Gas: Biden Gets Desperate

By Marc Krebs, Master Resource, Nov 27, 2023

<https://www.masterresource.org/krebs-mark/wartime-climate-policy-vs-gas/>

“Did DOE lack ‘clear and convincing evidence’ to justify new energy conservation standards for commercial water heaters that will result in the unavailability of noncondensing gas-fired water heaters?”

[SEPP Comment: Certainly, the US no longer lacks natural gas but only pipelines, in part thanks to Washington.]

Biden administration issues rule to cut methane emissions from oil and gas

By Rachel Frazin, The Hill, Dec 2, 2023

<https://thehill.com/policy/energy-environment/4338583-biden-administration-issues-rule-to-cut-methane-emissions/>

Federal Energy Efficiency Requirements Are Outdated and Should Be Repealed

By Jack Spencer, The Daily Signal, Nov 20, 2023

[https://www.dailysignal.com/2023/11/20/federal-energy-efficiency-requirements-are-outdated-should-be-](https://www.dailysignal.com/2023/11/20/federal-energy-efficiency-requirements-are-outdated-should-be-repealed/?utm_source=TDS_Email&utm_medium=email&utm_campaign=MorningBell&mkt_tok=ODI0LU1IVC0zMDQAAAGPr3qO-hYKZVwkTE2Sgu-9VOeqnArrej5ossIdy8tT1yThIDzDuNzGsznp3Xk60MRck8vTyUGJUM0Ya8ZkgCrFgNqgpn8Ch7w84b8rSYwlbXylZu8)

[repealed/?utm_source=TDS_Email&utm_medium=email&utm_campaign=MorningBell&mkt_tok=ODI0LU1IVC0zMDQAAAGPr3qO-hYKZVwkTE2Sgu-9VOeqnArrej5ossIdy8tT1yThIDzDuNzGsznp3Xk60MRck8vTyUGJUM0Ya8ZkgCrFgNqgpn8Ch7w84b8rSYwlbXylZu8](https://www.dailysignal.com/2023/11/20/federal-energy-efficiency-requirements-are-outdated-should-be-repealed/?utm_source=TDS_Email&utm_medium=email&utm_campaign=MorningBell&mkt_tok=ODI0LU1IVC0zMDQAAAGPr3qO-hYKZVwkTE2Sgu-9VOeqnArrej5ossIdy8tT1yThIDzDuNzGsznp3Xk60MRck8vTyUGJUM0Ya8ZkgCrFgNqgpn8Ch7w84b8rSYwlbXylZu8)

“The conditions that gave rise to the act in 1975 are clearly no longer in place. Further, like most regulations, federal bureaucrats have taken the authorities granted them by Congress to expand their power far beyond what anyone intended.”

[SEPP Comment: Motto of the new Department of Energy: We’ll make you spend more to save more?]

Oil and Natural Gas – the Future or the Past?

Innovative Disruption Has Now Come to the Natural Gas Industry

By Chuck Meyer, Real Clear Energy, Nov 22, 2023

https://www.realclearenergy.org/articles/2023/11/22/innovative_disruption_has_now_come_to_the_natural_gas_industry_994295.html

[SEPP Comment: Will Calcasieu Pass by Venture Global LNG be a demonstration project on how to build an LNG export facility faster and cheaper?]

US production of planet-heating fuels hits record levels

By Saul Elbein, The Hill, Nov 27, 2023

<https://thehill.com/policy/energy-environment/4329143-us-production-of-planet-heating-fuels-hits-record-levels/>

Return of King Coal?

Beijing’s Coal Boom Is Here to Stay

By Vijay Jayaraj, Real Clear Energy, Nov 20, 2023

https://www.realclearenergy.org/articles/2023/11/20/beijings_coal_boom_is_here_to_stay_993518.html

FutureCoal CEO Suggests ‘Cancel Coal’ Mantra Is Short-Sighted, Abated Coal Solutions Must Be Part of Energy Transition

By Aaron Larson, Power Mag, Nov 22, 2023

https://www.powermag.com/futurecoal-ceo-suggests-cancel-coal-mantra-is-short-sighted-abated-coal-solutions-must-be-part-of-energy-transition/?oly_enc_id=7809H6412578JOB

“Speaking at the 5th annual India Coal Conference in New Delhi, FutureCoal CEO Michelle Manook said, “Government and finance policies, which embrace a ‘cancel coal’ mantra, are short-sighted and undermine the very ambitions we seek to achieve as a global community.”

FutureCoal was formerly known as the World Coal Association.

Nuclear Energy and Fears

One Year After the Laser Fusion Energy Breakthrough: What Comes Next?

By Edward Moses, Real Clear Energy, Nov 30, 2023

https://www.realclearenergy.org/articles/2023/11/30/one_year_after_the_laser_fusion_energy_breakthrough_what_comes_next_996138.html

While America Pursues Renewables, Worldwide Expansion Is Underway for Nuclear Generated Electricity

By Ronald Stein, The Heartland Institute, Nov 24, 2023

<https://heartland.org/opinion/while-america-pursues-renewables-worldwide-expansion-is-underway-for-nuclear-generated-electricity/>

Biden climate envoy Kerry to unveil 1st-ever global plan to commercialize nuclear fusion energy at UN summit

Climate envoy John Kerry to announce international fusion energy plan at COP28

By Danielle Wallace, Fox News, Nov 21, 2023

<https://www.foxnews.com/world/biden-climate-envoy-kerry-unveil-first-ever-global-plan-commercialize-nuclear-fusion-energy-un-summit>

Alternative, Green (“Clean”) Solar and Wind

The world’s largest single-site solar farm just came online

By Michelle Lewis, Electrek, Nov 17, 2023

<https://1ft.io/proxy?q=https%3A%2F%2Felectrek.co%2F2023%2F11%2F17%2Fworlds-largest-single-site-solar-farm%2F>

[SEPP Comment: Near Abu Dhabi, 24 degrees north, it probably makes more sense building one there in the desert than building one near Buffalo New York, New York’s solar research center, about 43 degrees north, cloudy, and with lake effect snow. Wonder if the New York politicians consider this a challenge they have to meet?]

Residential solar power saves less energy than expected

By Tess Malone, Georgia Institute of Technology, TeechXplore, Nov 20, 2023 [H/t Richard Courtney

<https://techxplore.com/news/2023-11-residential-solar-power-energy.html>

Link to paper: **Tipping the scale: Why utility-scale solar avoids a solar rebound and what it means for U.S. solar policy**

By Matthew E. Oliver. The Electricity Journal, May 4, 2023

<https://www.sciencedirect.com/science/article/abs/pii/S1040619023000337?via%3Dihub>

[SEPP Comment: According to Richard Courtney, what the paper claims to be the "solar rebound effect" was identified over 100 years ago as the Jevons Paradox. Jevons noted that as coal became more efficient (when Watt's steam engine was developed), coal consumption increased. Courtney writes: "Importantly, my link points out that effects of the Jevons Paradox can be negated by imposition of an energy tax." So, **the important point (which is not - but should be - stated in The Electricity Journal article) is that Energy Taxes are imposed to deliberately act as a brake on economic activity.** Also, what is the cost for the necessary storage / backup for a utility scale solar system?]

Offshore Wind cannot be justified

By David Wojick, CFACT, Nov 22, 2023

<https://www.cfact.org/2023/11/22/offshore-wind-cannot-be-justified/>

Link to report: **How Offshore Wind Drives Up Global Carbon Emissions**

By David Wojick and Paul Driessen, CFACT, November 2023

<https://www.cfact.org/wp-content/uploads/2023/11/Wojick-Driessen-How-Offshore-Wind-Drives-Up-Global-Carbon-Emissions-FINAL.pdf>

Alternative, Green ("Clean") Energy -- Other

Enviva Near Collapse

By Paul Homewood, Not a Lot of People Know That, Nov 25, 2023

<https://notalotofpeopleknowthat.wordpress.com/2023/11/25/enviva-near-collapse/#more-69110>

"The company says that we use mostly waste like branches, treetops, and debris to make pellets," the whistleblower told Mongabay a year ago. "What a joke. We use 100% whole trees in our pellets. We hardly use any waste. Pellet density is critical. You get that from whole trees, not junk."

Industry Is Leading the Energy Transition

By Richard Voorberg, Real Clear Energy, Nov 29, 2023

https://www.realclearenergy.org/articles/2023/11/29/industry_is_leading_the_energy_transition_995730.html

Richard Voorberg is President of North America for Siemens Energy.

"There is so much happening in the clean energy space. We are splitting water into oxygen and green hydrogen using wind power, then combining that with captured carbon dioxide to produce synthetic methanol, which is then converted into fuel for automobiles. It sounds complicated. It is complicated. This is the future of energy production and use.

On November 8, we opened a new factory to manufacture our 18-megawatt PEM electrolyzers that will create tons of green hydrogen throughout the world. Our wind turbines are being installed on all continents, our high-voltage direct current technology is connecting those offshore platforms to the electrical grid - efficiently delivering more and more clean energy throughout the world."

[SEPP Comment: Send in the big bucks.]

North German Green Hydrogen Project Halted Due To Lack Of Economy..."Major Economic Risks"

By P Gosselin, No Tricks Zone, Nov 22, 2023

<https://notrickszone.com/2023/11/22/north-german-green-hydrogen-project-halted-due-to-lack-of-economy-major-economic-risks/>

Alternative, Green (“Clean”) Energy -- Storage

Giant batteries drain economics of gas power plants

By Sarah Mcfarlane and Susanna Twidale, Reuters, Nov 21, 2023 [H/t Bernie Kepshire]

<https://www.reuters.com/business/energy/giant-batteries-drain-economics-gas-power-plants-2023-11-21/>

“The long-term economics of gas-fired plants, used in Europe and some parts of the United States primarily to compensate for the intermittent nature of wind and solar power, are changing quickly, according to Reuters' interviews with more than a dozen power plant developers, project finance bankers, analysts and consultants.

They said some battery operators are already supplying back-up power to grids at a price competitive with gas power plants, meaning gas will be used less.”

[SEPP Comment: No evidence, just interviews with promoters? As Richard Courtney points out, all the claims in the summary may be true, but the reality is that the cheapest option is to use only gas, forget unreliable renewables.]

Alternative, Green (“Clean”) Vehicles

Study determines the astronomical true cost of electric vehicle ownership

Legacy automakers are pulling back their EV investments, citing softening demand.

By Ian Krietzberg, The Street, Nov 24, 2023 [H/t Bernie Kepshire]

https://www.thestreet.com/electric-vehicles/electric-vehicle-tesla-adoption-curve-cost?puc=yahoo&cm_ven=YAHO

Link to report: Overcharged Expectations: Unmasking the True Costs of Electric Vehicles

By Brent Bennett and Jason Isaac, Texas Public Policy Foundation, October 2023

<https://www.texaspolicy.com/wp-content/uploads/2023/10/2023-10-TrueCostofEVs-BennettIsaac.pdf>

“An October report by the Texas Public Policy Foundation found that, after accounting for all of the hidden costs involved in owning an EV, that price becomes much more significant than an internal combustion engine vehicle.

The foundation is a conservative think tank that according to 2012 tax filings was funded predominantly by Exxon Mobil, Chevron and the Koch brothers. The organization, according to the New York Times, has been attempting for years to promote fossil fuels while inciting a pullback in America's transition to renewable energy.”

[SEPP Comment; Semi-honest reporting. “Tax-exempt organizations, nonexempt charitable trusts, and section 527 political organizations file Form 990 to provide the IRS with the information required by section 6033.” (if gross receipts are greater than \$25,000)]

<https://www.irs.gov/forms-pubs/about-form-990>

The war on the car

By James Ruppert, Net Zero Watch, November 2023

<https://www.netzerowatch.com/the-war-on-the-car/>

“Junk Science: The root of all our problems.”

The green scam: How electric vehicles harm the environment that they’re supposed to save

In 2032, India will need a billion tonnes of coal, partly to charge EVs in urban areas via power generated by thermal plants

By Shuchita Jha, “an independent environmental journalist based in Bhopal, India.”, RT (Russia Today), Nov 24, 2023 [H/t Bernie Kepshire]

<https://www.rt.com/india/587913-india-needs-electric-vehicles/>

New Jersey to phase out new gas-powered vehicles by 2035

By Zack Budryk, The Hill, Nov 22, 2023

<https://thehill.com/policy/energy-environment/4323323-new-jersey-gas-ev/>

[SEPP Comment: Claiming fire risks, New Jersey requires gas station attendants to pump the gas, no self-service. Will it require attendants to charge EVs that take hours?]

The Biden Administration's EV Goals Are an Expensive Fantasy

By Brent Bennett & Andrea Hitt, Real Clear Energy, Nov 21, 2023

https://www.realclearenergy.org/articles/2023/11/21/the_biden_administrations_ev_goals_are_an_expensive_fantasy_994010.html

EV chargers, heat pumps may be curtailed in Germany as of 2024

By Paul Homewood, Not a Lot of People Know That, Nov 30, 2023

<https://notalotofpeopleknowthat.wordpress.com/2023/11/30/ev-chargers-heat-pumps-may-be-curtailed-in-germany-as-of-2024/>

“What may start as the ‘exception’ will quickly become the norm.

So if you want to heat your home in winter, or charge your car to get to work the next day, tough luck.”

There go those glorious EV transition plans — Australians are not buying

By Jo Nova, Her Blog, Nov 22, 2023

<https://joannenova.com.au/2023/11/there-go-those-glorious-ev-transition-plans-australians-are-not-buying/>

EV's report 80% more problems than petrol, diesel cars

By Jo Nova, Her Blog, Nov 30, 2023

<https://joannenova.com.au/2023/11/evs-report-80-more-problems-than-petrol-diesel-cars/>

Carbon Schemes

First cross-border transport of CO2 expected in 2025: Yara [a private company]

By AFP Staff Writers, Oslo (AFP), Nov 26, 2023

https://www.energy-daily.com/reports/First_cross-border_transport_of_CO2_expected_in_2025_Yara_999.html

“After being liquified, the CO2 will be transported by boat to Oygarden, where a terminal is under construction for Northern Lights on Norway's coast, then injected into the North Sea seabed at a depth of around 2.6 kilometres (1.6 miles) for permanent storage.”

Switzerland backs CO2 storage under the sea

By AFP Staff Writers, Geneva (AFP) Nov 22, 2023

https://www.terraviva.com/reports/Switzerland_backs_CO2_storage_under_the_sea_999.html

“In June, Swiss voters backed a new climate bill aimed at steering their country of melting glaciers towards carbon neutrality by 2050.

The law requires landlocked Switzerland to slash its dependence on imported oil and gas and scale up the development and use of greener and more homegrown alternatives.”

[SEPP Comment: Why bother to drill holes under the seabed for storage? Why don't build dry ice plants at Vostok Antarctica, where it reached -89.2°C (-128.6°F) in July 1983, well below the freezing point of CO2 (at sea level), and dump the ice in ocean trenches where the cold and pressure should keep it slush for millions of years? Note that the freezing point of CO2 depends on pressure,]

The U.S. has a controversial plan to store carbon dioxide under the nation's forests

By Julia Simon, NPR, Nov 20, 2023

<https://www.npr.org/2023/11/20/1211439763/the-u-s-has-a-controversial-plan-to-store-carbon-dioxide-under-the-nations-fores>

“In 2020, a CO2 pipeline ruptured in Satartia, Mississippi, sending at least 45 people to the hospital. Some of those people report they are still suffering from lingering health issues. Pipeline ruptures could pose a threat for people recreating in forests – plus wildlife, says Victoria Bogdan Tejada, attorney at the Center for Biological Diversity.

‘The thing about CO2 is it's a deadly asphyxiant, whether it leaks near a town or whether it leaks near a forest,’ Bogdan Tejada says.”

Talking to the arbres

By John Robson, Climate Discussion Nexus, Nov 29, 2023

<https://climatediscussionnexus.com/2023/11/29/talking-to-the-arbres/>

“There are projects under way around the world to genetically engineer plants – namely crops – for traits such as bigger yields, disease resistance or drought or heat tolerance. But efforts to engineer them to do better at drawing CO2 out of the atmosphere to fight the climate crisis directly are newer.”

Environmental Industry

This Liquefied Natural Gas Facility Is the Next Carbon Bomb

Calcasieu Pass 2 threatens local communities and global climate targets

By Delaney Nolan, Sierra, Nov 27, 2023

<https://www.sierraclub.org/sierra/liquefied-natural-gas-facility-next-carbon-bomb>

Thousands of Students at Warwick Uni “Forced to Go Vegan”

By Paul Homewood, Not a Lot of People Know That, Nov 28, 2023

<https://notalotofpeopleknowthat.wordpress.com/2023/11/28/thousands-of-students-at-warwick-uni-forced-to-go-vegan/>

Other Scientific News

Plants that survived dinosaur extinction pulled nitrogen from air

By Staff Writers, Durham NC (SPX) Nov 21, 2023

https://www.terraviva.com/reports/Plants_that_survived_dinosaur_extinction_pulled_nitrogen_from_air_999.html

Link to paper, Nitrogen isotopes reveal independent origins of N₂-fixing symbiosis in extant cycad lineages

By Michael A. Kipp, et al. Nature Ecology & Evolution, Nov 16, 2023

<https://www.nature.com/articles/s41559-023-02251-1>

[SEPP Comment: Don't understand why nitrogen fixation was necessary to survival of (non-avian) dinosaurs.]

The moon is 40M years older than previously thought

Scientists help analyze lunar samples collected by Apollo 17 astronauts

Press Release, NSF, Nov 28, 2023

https://new.nsf.gov/news/moon-40m-years-older-previously-thought?utm_medium=email&utm_source=govdelivery

BELOW THE BOTTOM LINE

The Cartoons by Josh Calendar 2024

By Paul Homewood, Not a Lot of People Know That, Dec 1, 2023

<https://notalotofpeopleknowthat.wordpress.com/2023/12/01/the-cartoons-by-josh-calendar-2024/>

UN 1991: “we must eliminate 350,000 people per day”

By Tony Heller, His Blog, Nov 24, 2023

<https://realclimatescience.com/2023/11/un-1991-we-must-eliminate-350000-people-per-day/#gsc.tab=0>

Claim: The Cuban Economy is a Model for Successful Green Degrowth

By Eric Worrall, WUWT, Nov 27, 2023

<https://wattsupwiththat.com/2023/11/27/claim-the-cuban-economy-is-a-model-for-successful-green-degrowth/>

[SEPP Comment: Worse than economists claiming that the Soviet economy was comparable to the US, until the Soviet implosion.]

British empire’s past emissions ‘double UK’s climate responsibility’

By Paul Homewood, Not a Lot of People Know That, Nov 27, 2023

<https://notalotofpeopleknowthat.wordpress.com/2023/11/27/british-empires-past-emissions-double-uks-climate-responsibility/>

[SEPP Comment: Was it responsible for the massive global deaths from droughts and floods in Asia in the 1920s & 30s?]

Climate conspiracy theories flourish ahead of COP28

By Roland Lloyd Parry, Phys.org, Nov 22, 2023 [H/t Bernie Kepshire]

<https://phys.org/news/2023-11-climate-conspiracy-theories-flourish-cop28.html>

“Michael Mann, a climate scientist at the University of Pennsylvania and **prominent analyst of climate disinformation**, said he believed the rise was "organized and orchestrated" by opponents of reforms.” [Boldface added]

[SEPP Comment: Praising a noted originator of climate disinformation as a prominent analyst? No need to say more about Phys.org.]

China To Save The World (Again)–AEP [Columnist for The Telegraph (UK)]

By Paul Homewood, Not a Lot of People Know That, Dec 25, 2023

<https://notalotofpeopleknowthat.wordpress.com/2023/11/22/china-to-save-the-world-again-aep/>

Limestone cowboys

By John Robson, Climate Change Nexus, Nov 22, 2023

<https://climatediscussionnexus.com/2023/11/22/limestone-cowboys/>

“For instance, AFP announces ‘California startup to ‘sponge’ CO2 from the atmosphere’ using, of all things, limestone. Which we never had before. Uh, except in astronomical quantities deposited on the ocean floor by calciferous sea creatures whose often tiny individual shells have been sucking so much carbon from the overall cycle that atmospheric levels have fallen perilously low, hitting just 180 ppm in the Last Glacial Maximum. But this time for sure.”

ARTICLES

There are no articles this week.