

**The Week That Was: 2021-04-17 (April 17, 2021)**  
**Brought to You by SEPP ([www.SEPP.org](http://www.SEPP.org))**  
**The Science and Environmental Policy Project**

**Quote of the Week:** *“There is one feature I notice that is generally missing in cargo cult science. ... It's a kind of scientific integrity, a principle of scientific thought that corresponds to a kind of utter honesty — a kind of leaning over backwards. For example, if you're doing an experiment, you should report everything that you think might make it invalid — not only what you think is right about it; other causes that could possibly explain your results; and things you thought of that you've eliminated by some other experiment, and how they worked — to make sure the other fellow can tell they have been eliminated.”*

*“Details that could throw doubt on your interpretation must be given, if you know them. You must do the best you can — if you know anything at all wrong, or possibly wrong — to explain it. If you make a theory, for example, and advertise it, or put it out, **then you must also put down all the facts that disagree with it, as well as those that agree with it.** There is also a more subtle problem. When you have put a lot of ideas together to make an elaborate theory, you want to make sure, when explaining what it fits, that those things it fits are not just the things that gave you the idea for the theory; **but that the finished theory makes something else come out right, in addition.***

*“In summary, the idea is to try to give all of the information to help others to judge the value of your contribution; not just the information that leads to judgement in one particular direction or another.”* – Richard Feynman, 1974 Caltech commencement address. [Boldface added]

**Number of the Week:** – Number of the Week: 53.4% for 3.6%.

**THIS WEEK:**

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

**Opposing the Crusaders:** Writing in National Review, Physicists Richard Lindzen and William Happer draw a parallel between the current political fad of western governments of fighting a supposed “climate emergency” and the medieval crusades. [There was even a children’s crusade when many of the children from France and Germany did not see the miracles they expected and drifted about or were sold into slavery. The accounts of what happened are not clear or definitive.]

Lindzen and Happer write:

*“We are both scientists who can attest that the research literature does not support the claim of a climate emergency. Nor will there be one. None of the lurid predictions — dangerously accelerating sea-level rise, increasingly extreme weather, more deadly forest fires, unprecedented warming, etc. — are any more accurate than the fire-and-brimstone sermons used to stoke fanaticism in medieval crusaders.*

*“True believers assert that this emergency can be averted only by eliminating greenhouse-gas emissions. Greenhouse gases include ubiquitous water vapor, methane, nitrous oxide, and above all, carbon dioxide, a gas released when fossil fuels are burned to power transportation, generate electricity, and are used to manufacture amenities of modern life.*

*“Greenhouse gases in the atmosphere let sunlight warm the earth’s surface. But they absorb some of the heat radiation from the surface and atmosphere that would otherwise cool more efficiently by escaping directly to space. Greenhouse gases — and clouds — keep the earth’s surface temperature several tens of degrees Celsius warmer than it would be without them.*

*“So far, climate crusaders have refrained from vilifying water vapor and clouds, which make the largest contribution to greenhouse warming of the earth. Carbon dioxide, demonized as “carbon pollution,” is an improbable villain. Green plants use the energy of sunlight to manufacture sugar and other organic molecules of life from carbon dioxide and water molecules. A byproduct of photosynthesis is the oxygen of our atmosphere. Each human exhales about two pounds of the ‘pollutant’ carbon dioxide every day.*

*“No scientist familiar with radiation transfer denies that more carbon dioxide is likely to cause some surface warming. But the warming would be small and benign. In fact, history shows that warmings of a few degrees Celsius — which extended growing seasons — have been good for humanity. The golden age of classical Roman civilization occurred during a warm period. Cooling periods, which were accompanied by barbarian invasions, famines, and plagues, have been bad. Barbara Tuchman characterizes such periods as ‘the calamitous 14th century’ in her book, **A Distant Mirror**.*

*“More carbon dioxide will certainly increase the productivity of agriculture and forestry. Over the past century, the earth has already become noticeably greener as a result of the modest increase of CO<sub>2</sub>, from about 0.03 percent to 0.04 percent of atmospheric molecules. More CO<sub>2</sub> has made a significant contribution to the increased crop yields of the past 50 years, as well. The benefits to plants of more CO<sub>2</sub> are documented in hundreds of scientific studies.”*

Lindzen and Happer point out that the fear of CO<sub>2</sub>–caused warming violates Le Chatelier’s principle in chemistry that:

*“when a settled system is disturbed, it will adjust to diminish the change that has been made to it.”*

In short, systems tend to have what is called “negative feedbacks” not “positive feedbacks” so often assumed in Bandwagon Science. Further, the concept of “tipping points” is foreign to the physical world, though it has been used by the UN Intergovernmental Panel on Climate Change (IPCC) for years. [Apparently, it comes from sociology from what happens to a balance scale, which have a pivot point. Applying “tipping points” to physics requires physical evidence, otherwise it is meaningless jargon such as if a ship sails too far from land it will fall off the edge of the earth.]

After discussing the poor science behind crusades against methane and nitrous oxide (mainly from fertilizer use), the authors conclude:

*“A serious review of policy-related climate science is long overdue. Crusaders will continue to retort that ‘the science is settled; it is time to act!’ But real science is never settled, nor is scientific truth determined by consensus or political diktats. Agreement with observations is the measure of scientific truth. Climate models predict two or three times more warming than has been observed. They have already been falsified. A soon-to-be published book by physicist and*

New York University professor Steven Koonin, *Unsettled*, convincingly lays out some of the problems a high-quality review would reveal.

*“There is no climate emergency. Americans should not be stampeded into a disastrous climate crusade. The medieval crusades did far more harm than good, destroying the lives of many decent people of all faiths, and leaving a bitter legacy that complicates international relations and social harmony to this day. A climate crusade that destroys economies and ultimately lives will be as bad, or worse.”* See links under Challenging the Orthodoxy.

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**Jenkins on Koonin:** *Wall Street Journal* columnist Holman Jenkins has two notable essays this week, one published April 13 on the failed IPCC storyline of high CO2 emissions and the botched coverage of the US Fourth National Assessment (2018), and one published April 16 about Steven Koonin, who is cited above. Steven Hayward of the blog Power Line has a good summary of the April 13 essay and the misleading IPCC storyline. The extreme IPCC storyline has resulted in thousands of studies that charitably can be described as Bandwagon Science.

The April 16 column is an interview titled: “How a Physicist Became a Climate Truth Teller: After a stint at the Obama Energy Department, Steven Koonin reclaims the science of a warming planet from the propaganda peddlers.” Jenkins begins:

*“Barack Obama is one of many who have declared an ‘epistemological crisis,’ in which our society is losing its handle on something called truth.*

*“Thus an interesting experiment will be his and other Democrats’ response to a book by Steven Koonin, who was chief scientist of the Obama Energy Department. Mr. Koonin argues not against current climate science but that what the media and politicians and activists say about climate science has drifted so far out of touch with the actual science as to be absurdly, demonstrably false.”*

After citing as questionable some reports from the US National Academies of Sciences about weather events and the IPCC, Jenkins writes:

*“Mr. Koonin, 69, and I are of one mind on 2018’s U.S. Fourth National Climate Assessment, issued in Donald Trump’s second year, which relied on such overegged worst-case emissions and temperature projections that even climate activists were abashed (a revolt continues to this day). ‘The report was written more to persuade than to inform,’ he says. ‘It masquerades as objective science but was written as—all right, I’ll use the word—propaganda.’”*

Jenkins discusses some of Koonin’s background, including his decades of teaching at Caltech and work with JASON which provides classified and unclassified analysis to federal agencies. [William Happer was long associated with JASON.] Then Jenkins states:

*“He began planting seeds as an institutionalist. He joined the oil giant BP as chief scientist, working for John Browne, now Baron Browne of Madingley, who had redubbed the company ‘Beyond Petroleum.’ Using \$500 million of BP’s money, Mr. Koonin created the Energy Biosciences Institute at Berkeley that’s still going strong. Mr. Koonin found his interest in climate science growing, ‘first of all because it’s wonderful science. It’s the most multidisciplinary thing I know. It goes from the isotopic composition of microfossils in the sea floor all the way through to the regulation of power plants.’*

*“From deeply examining the world’s energy system, he also became convinced that the real climate crisis was a crisis of political and scientific candor. He went to his boss and said, ‘John, the world isn’t going to be able to reduce emissions enough to make much difference.’*

*“Mr. Koonin still has a lot of Brooklyn in him: a robust laugh, a gift for expression and for cutting to the heart of any matter. His thoughts seem to be governed by an all-embracing realism. Hence the book coming out next month, **“Unsettled: What Climate Science Tells Us, What It Doesn’t, and Why It Matters.”***

*“Any reader would benefit from its deft, lucid tour of climate science, the best I’ve seen. His rigorous parsing of the evidence will have you questioning the political class’s compulsion to manufacture certainty where certainty doesn’t exist. You will come to doubt the usefulness of century long forecasts claiming to know how 1% shifts in variables will affect a global climate that we don’t understand with anything resembling 1% precision.*

*“His book lands at a crucial moment. In its first new assessment of climate science in eight years, the U.N. climate panel—sharer of Al Gore’s Nobel Peace Prize in 2007—will rule anew next year on a conundrum that has not advanced in 40 years: How much warming should we expect from a slightly enhanced greenhouse effect?*

*“The panel is expected to consult 40-plus climate computer simulations—testament to its inability to pick out a single trusted one. Worse, the models have been diverging, not coming together as you might hope. Without tweaking, they don’t even agree on current simulated global average surface temperature—varying by 3 degrees Celsius, three times the observed change over the past century. (If you wonder why the IPCC expresses itself in terms of a temperature ‘anomaly’ above a baseline, it’s because the models produce different baselines.)*

*“Mr. Koonin is a practitioner and fan of computer modeling. ‘There are situations where models do a wonderful job. Nuclear weapons, when we model them because we don’t test them anymore. And when Boeing builds an airplane, they will model the heck out of it before they bend any metal.’*

*“‘But these are much more controlled, engineered situations,’ he adds, ‘whereas the climate is a natural phenomenon. It’s going to do whatever it’s going to do. And it’s hard to observe. You need long, precise observations to understand its natural variability and how it responds to external influences.’*

*“Yet these models supply most of our insight into how the weather might change when emissions raise the atmosphere’s CO<sub>2</sub> component from 0.028% in preindustrial times to 0.056% later in this century. ‘I’ve been building models and watching others build models for 45 years,’ he says. Climate models ‘are not to the standard you would trust your life to or even your trillions of dollars to.’ Younger scientists in particular lose sight of the difference between reality and simulation: ‘They have grown up with the models. They don’t have the kind of mathematical or physical intuition you get when you have to do things by pencil and paper.’*

*“All this you can hear from climate modelers themselves, and from scientists nearer the ‘consensus’ than Mr. Koonin is. Yet the caveats seem to fall away when plans to spend trillions of dollars are bruited.*

*“For the record, Mr. Koonin agrees that the world has warmed by 1 degree Celsius since 1900 and will warm by another degree this century, placing him near the middle of the consensus. Neither he nor most economic studies have seen anything in the offing that would justify the rapid and wholesale abandoning of fossil fuels, even if China, India, Brazil, Indonesia, and others could be dissuaded from pursuing prosperity.”*

After discussing nuclear energy and electric vehicles, Jenkins concludes with:

*“Mr. Koonin says he wants voters, politicians, and business leaders to have an accurate account of the science. He doesn’t care where the debate lands. Yet his expectations are ruled by a keen sense of realities. I mention, along with some names, that I never met anyone of serious judgment who didn’t privately pooh-poooh the idea that humanity will control CO2 by means other than the mostly unregulated progress of markets and technology. Mr. Koonin nods his agreement.*

*“He speaks of ‘could,’ ‘should’ and ‘will’—and what ‘will’ happen is a lot less than elites, in response to current reward structures, are pretending will happen. Even John Kerry, Joe Biden’s climate czar, recently admitted that Mr. Biden’s ‘net-zero’ climate plan will have zero effect on the climate if developing countries don’t go along (and they have little incentive to do so). Mr. Koonin hopes that ‘a graceful out for everybody’ will be to see the impulse for global climate regulation ‘morph into much more impactful local environmental action: smog, plastic, green jobs. Forget the global aspect of this.’*

*“This is a view widely shared and little expressed. First, the mainstream climate community will try to ignore his book, even as his publicists work the TV bookers in hopes of making a splash. Then Mr. Koonin knows will come the avalanche of name-calling that befalls anybody trying to inject some practical nuance into political discussions of climate.*

*“He adds with a laugh: ‘My married daughter is happy that she’s got a different last name.’”*

See links under Challenging the Orthodoxy and Article # 1 [paywalled].

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**Dishonesty by Omission:** In the Quote of the Week, Richard Feynman asserts that integrity in science requires experimenters report all avenues explored, including failures. “Integrity in Science” is a term being used in Washington. Unfortunately, it appears to be little more than a political slogan.

In a hearing before the House Committee on Appropriations, Subcommittee on Commerce, Justice, Science, and related Agencies, NOAA’s Assistant Secretary of Commerce for Environment Observation and Prediction (Acting) and Assistant Administrator for Ocean Services and Coastal Zone Management (Acting) submitted written testimony. The first paragraph stated:

*“NOAA’s mission is science, service, and stewardship. Our reach goes from the surface of the sun to the depths of the ocean floor as we work to keep the public informed of the changing environment around them. We know that major elements of our Earth’s life support system are changing in ways never before observed in recorded history. Foundational environmental parameters – atmospheric composition, surface temperature, ocean chemical balance, global sea levels, polar sea-ice cover, global land use distribution – are all changing at unprecedented rates.*

The second paragraph went on:

*“Extreme weather events, exacerbated by climate change, are projected to continue worsening in intensity, duration, and frequency over the coming decades in the United States and around the world, and chronic conditions, like sea level rise and heat waves, threaten both our natural environments and built infrastructure. These changing conditions significantly threaten lives and livelihoods. They put our government institutions and economy at risk, from U.S. military readiness to the insurance industry, from real estate to public health. Unless substantial large-scale action is taken to plan for and address these and other climate-related risks at the local community level, the impacts on human and natural systems are likely to worsen this century. We know that addressing climate change is crucial for our environment, our people, and our economy – as well as for job creation. Many climate change impacts are already being felt across our Nation, making climate-resilient adaptation of paramount importance. We must take bold and effective steps to safeguard our society in both the near and long term. NOAA knows climate, and we know how to inform and help prepare our nation and our communities for these challenges.”*

As stated by Lindzen and Happer, there is no physical evidence showing that we are experiencing a climate emergency or experiencing a worsening of weather events. There is no mention in the testimony that atmospheric temperatures show a modest warming trend and vegetation is flourishing, which will benefit mankind.

Apparently, in the current administration hyperbole, extreme exaggeration, will substitute for reality. See links under Defending the Orthodoxy, Defending the Orthodoxy – Bandwagon Science, and Change in US Administrations.

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**Lovelock’s Regret:** In discussing failed predictions by environmentalists, Australian Tony Thomas discusses James Lovelock, a Fellow of the Royal Society. Lovelock developed the Gaia Hypothesis, a view of the Earth that sees it as a self-regulating entity that keeps the surface environment always fit for life. In 2012, Lovelock wrote a letter opposing a wind turbine project near his home, concluding with:

*“I am an environmentalist and founder member of the Greens, but I bow my head in shame at the thought that our original good intentions should have been so misunderstood and misapplied. **We never intended a fundamentalist Green movement that rejected all energy sources other than renewable, nor did we expect the Greens to cast aside our priceless ecological heritage because of their failure to understand that the needs of the Earth are not separable from human needs. We need take care that the spinning windmills do not become like the statues on Easter Island, monuments of a failed civilisation.**”* [Boldface added by Thomas.]

See links under Questioning the Orthodoxy and

<http://static1.1.sqspcdn.com/static/f/102468/21746142/1359124381510/James+Lovelock+Letter.pdf?token=PbILkUDqi7bJiGAMgZU2%2FkO0Fx0%3D>

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**The Antarctic Is Balanced?** Jay Zwally of the Cryospheric Sciences Laboratory, NASA Goddard Space Flight Center (not NASA-GISS), and other scientists with NASA and French scientists have calibrated satellite measurements using the US GRACE instruments and the European ICESat instruments. They try to correct the different readings from the two different sets of instruments and separate changing ice mass from changing bedrock subsidence and rising. They calculate that ice mass in Eastern Antarctica, the bulk of the continent, is increasing and for

Western Antarctica it is diminishing, particularly on the Antarctic Peninsula. The Antarctic Peninsula is subject to geothermal activity from below the ice.

These scientists estimate that from 1992 to 2001, the gain in ice in Eastern Antarctica was greater than the loss of ice in Western Antarctica, resulting in a net increase. Beginning in 2009 the loss of ice in Western Antarctica increased, resulting in an approximate net balance. They calculate an insignificant net loss from 2012 to 2016 less than one-fifth the estimated error of their calculations. In short, there is no acceleration of ice loss in Antarctica and claims that such ice loss is causing an accelerating increase in sea levels are unsubstantiated by physical evidence. See links under Changing Cryosphere – Land / Sea Ice

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**Staggering Subsidies:** Reports from Europe, especially the UK, reveal that the public has been misled about the costs of offshore wind power. Wind promoters have claimed the costs are falling. These claims were based on what industrial wind companies bid to get contracts to provide electricity. The claims were not based on the actual costs the public must pay in electrical fees and tax supported subsidies. In the UK, the subsidies are called Contracts for Difference. In investment terms:

*“A contract for differences (CFD) is an arrangement made in financial derivatives trading where the differences in the settlement between the open and closing trade prices are cash-settled. There is no delivery of physical goods or securities with CFDs.*

*“Contracts for differences is an advanced trading strategy that is used by experienced traders and is not allowed in the United States.”*

The Global Warming Policy Forum (GWPF) did an analysis of payments to six offshore industrial wind sites in 2020. It found:

*“The level of subsidy is sufficient to cover the construction cost of these windfarms in just six or seven years, meaning that future payments will represent almost pure profit for the operators.”*

*“The level of handouts is an obscenity. Every time a new windfarm comes on stream, the consumer is hit with a double whammy – a relentless increase in annual subsidy payments to windfarm operators and an annual bill for fixing the damage that is done to grid stability.”*

For one industrial wind site Andrew Montford of GWPF wrote:

*“It turns out that a whopping £280 million of its income – 75% of the total – came in the form of subsidies...”*

There is no question that industrial wind and solar fail; it’s just a question of when. Washington and State / local governments that provide subsidies or legislate mandates for wind and solar are playing Russian Roulette with the American people. See links under Change in US Administrations, Subsidies and Mandates Forever, and Alternative, Green (“Clean”) Solar and Wind, and <https://www.investopedia.com/terms/c/contractfordifferences.asp>

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**14<sup>th</sup> ICCR Rescheduled:** The 14<sup>th</sup> International Conference on Climate Change presented by The Heartland Institute has been rescheduled to October 15 to 17, 2021, at Caesars Palace in Las Vegas. See <https://climateconference.heartland.org/>

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## SEPP'S APRIL FOOLS AWARD THE JACKSON

SEPP is conducting its annual vote for the recipient of the coveted trophy, The Jackson, a lump of coal. Readers are asked to nominate and vote for who they think is most deserving, following these criteria:

- The nominee has advanced, or proposes to advance, significant expansion of governmental power, regulation, or control over the public or significant sections of the general economy.
- The nominee does so by declaring such measures are necessary to protect public health, welfare, or the environment.
- The nominee declares that physical science supports such measures.
- The physical science supporting the measures is flimsy at best, and possibly non-existent.

The past recipients, Lisa Jackson, Barack Obama, John Kerry, Ernest Moniz, Michael Mann, Christiana Figueres, Jerry Brown, AOC, and Neil Ferguson are not eligible. Generally, the committee that makes the selection prefers a candidate with a national or international presence. The voting will close on July 31. Please send your nominee and a brief reason why the person is qualified for the honor to Ken@SEPP.org. Thank you. For a list of past recipients and their accomplishments in earning this honor see <http://www.sepp.org/april-fools-award.cfm>

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**Number of the Week: 53.4% for 3.6%.** According to a 2019 report from the Congressional Research Service, in 2017, 53.4% of Federal “Energy Tax Incentives” went to wind and solar, which produced 3.6% of total US Primary Energy Production (in BTUs).

Thus, the bulk of US Federal subsidies for energy are to industries that supply unreliable electricity.

Note that under “Table 1, Primary Energy Production by Source, 2017” the table breaks out Biomass (5.9% of total), includes Biofuels which is about 45% of Biomass, the rest is waste wood burnt at lumber sites and similar. Table 3, “Comparing Energy Production and Tax Incentives” does not distinguish between Biomass from other renewables. Biofuels receive the tax incentives, leading one to assume that the subsidized fuels produce more energy than they actually do. See links under Subsidies and Mandates Forever

Congress is playing Russian Roulette with the American people.

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### NEWS YOU CAN USE:

#### ***Commentary: Is the Sun Rising?***

#### **When the sun burns**

By John Robson, Climate Discussion Nexus, Apr 14, 2021

<https://climatediscussionnexus.com/2021/04/14/when-the-sun-burns/>

#### ***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](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***

#### **Climate ‘Emergency’? Not So Fast**

By Richard Lindzen and William Happer, National Review, Apr 16, 2021 [H/t Paul Redfern]

<https://www.nationalreview.com/2021/04/climate-emergency-not-so-fast/>

“Americans should not be stampeded into a disastrous climate crusade.”

#### **Media finally notices that the RCP 8.5 climate model is over-hyped science fiction**

By Anthony Watts, WUWT, Apr 15, 2021

<https://wattsupwiththat.com/2021/04/15/media-finally-notices-that-the-rcp-8-5-climate-model-is-over-hyped-science-fiction/>

#### **Making people believe nonsense: The imaginary decline of fossil fuels**

By Jo Nova, Her Blog, Apr 12, 2021

<https://joannenova.com.au/2021/04/making-people-believe-nonsense-the-imaginary-decline-of-fossil-fuels/>

### **Climate Change Checkup**

By Steven Hayward, Power Line, Apr 14, 2021 [H/t William Readdy]

<https://www.powerlineblog.com/archives/2021/04/climate-change-checkup.php>

[SEPP Comment: Describing an essay by Holman Jenkins on UN story lines in the WSJ.]

### **Scientists say**

By John Robson, Climate Discussion Nexus, Apr 14, 2021

<https://climatediscussionnexus.com/2021/04/14/scientists-say-14/>

The Relationship between Atmospheric Carbon Dioxide Concentration and Global Temperature for the Last 425 Million Years

By W. Jackson Davis, Climate, Sep 19, 2017

<https://www.mdpi.com/2225-1154/5/4/76/htm>

“Marginal radiative forcing ( $\Delta R_{FCO_2}$ ), the change in forcing at the top of the troposphere associated with a unit increase in atmospheric CO<sub>2</sub> concentration, was computed using MODTRAN.”

“This study demonstrates that changes in atmospheric CO<sub>2</sub> concentration did not cause temperature change in the ancient climate.”

### **The Climate Blame Game**

By Staff, GWPF, Apr 13, 2021

<https://www.thegwpf.com/the-climate-blame-game/>

The Climate Blame Game: Are We Really Causing Extreme Weather?

By William M Briggs, The Global Warming Policy Foundation, 2021

<https://www.thegwpf.org/content/uploads/2021/04/Briggs-Climate-Attribution.pdf>

### **Earth Day - years of failed doomsday, eco-pocalyptic predictions; the so-called ‘experts’ are 0-50**

By Mark Perry, Carpe Diem, Via ICECAP, updated Apr 16, 2021

[http://icecap.us/index.php/go/new-and-cool/earth\\_day\\_years\\_of\\_failed\\_doomsday\\_eco\\_pocalyptic\\_predictions\\_the\\_so\\_called/](http://icecap.us/index.php/go/new-and-cool/earth_day_years_of_failed_doomsday_eco_pocalyptic_predictions_the_so_called/)

### **Lessons In Woke "Science": Covid-19 And Climate**

By Francis Menton, Manhattan Contrarian, Apr 11, 2021

<https://www.manhattancontrarian.com/blog/2021-4-11-lessons-in-woke-science-covid-19-and-climate>

### ***Defending the Orthodoxy***

**Written Statement of Dr Stephen Volz, Assistant Secretary of Commerce for Environment Observation and Prediction (Acting), and Ms. Nicole LeBoeuf, Assistant Administrator for Ocean Services and Coastal Zone Management (Acting)**

Hearing on NOAA Climate Services Before the House Committee on Appropriations, Subcommittee on Commerce, Justice, Science, and related Agencies, Apr 15, 2021 [H/t William Readdy]

<https://docs.house.gov/meetings/AP/AP19/20210415/111436/HHRG-117-AP19-Wstate-LeBoeufN-20210415.pdf>

## **Global CO2 emissions far off net-zero trajectory: Kemp**

By John Kemp, Reuters, Apr 9, 2021

<https://www.reuters.com/article/us-global-emissions-kemp/column-global-co2-emissions-far-off-net-zero-trajectory-kemp-idUSKBN2BW21Q>

## ***Defending the Orthodoxy – Bandwagon Science***

### **Abrupt ice age climate changes behaved like cascading dominoes**

By Staff Writers, Copenhagen, Denmark (SPX), Apr 11, 2021

[https://www.spacedaily.com/reports/Abrupt\\_ice\\_age\\_climate\\_changes\\_behaved\\_like\\_cascading\\_dominoes\\_999.html](https://www.spacedaily.com/reports/Abrupt_ice_age_climate_changes_behaved_like_cascading_dominoes_999.html)

Link to paper: The anatomy of past abrupt warmings recorded in Greenland ice

By E. Capron, Nature Communications, Apr 8, 2021

<https://www.nature.com/articles/s41467-021-22241-w>

### **New study: Thick sea-ice warms Greenland fjords**

Press Release by Stockholm University, Apr 12, 2021 [H/t Bernie Kepshire]

<https://phys.org/news/2021-04-thick-sea-ice-greenland-fjords.html>

Link to paper: The climate sensitivity of northern Greenland fjords is amplified through sea-ice damming

By Christian Stranne, et al. Nature Communications, Apr 12, 2021

<https://www.nature.com/articles/s43247-021-00140-8>

### **From stardust to pale blue dot: Carbon's interstellar journey to Earth**

Carbon, the backbone of life on Earth, might have been delivered after planetary formation

News Release, NSF, Apr 14, 2021

[https://www.nsf.gov/discoveries/disc\\_summ.jsp?cntn\\_id=302491&WT.mc\\_id=USNSF\\_1](https://www.nsf.gov/discoveries/disc_summ.jsp?cntn_id=302491&WT.mc_id=USNSF_1)

Link to one study: Earth's carbon deficit caused by early loss through irreversible sublimation

By J. Li, et al. AAAS Science, Apr 2, 2021

<https://advances.sciencemag.org/content/7/14/eabd3632>

Link to second study: Early volatile depletion on planetesimals inferred from C–S systematics of iron meteorite parent bodies

By Marc M. Hirschmann, et al. PNAS, Mar 30, 2021

<https://www.pnas.org/content/118/13/e2026779118/tab-figures-data>

From the press release: A planet's carbon must exist in the right proportion to support life as we know it. **Too much carbon, and the Earth's atmosphere would be like that of Venus, trapping heat from the sun and maintaining a temperature of about 880 degrees Fahrenheit.** Too little carbon, and Earth would resemble Mars: an inhospitable place unable to support water-based life, with temperatures around 60 below zero. [Boldface added]

*[SEPP Comment: Strongly doubt that too much CO2 causes intense greenhouse warming. At the surface, the atmospheric pressure of Venus is 93 times that of Earth. The Earth's atmospheric pressure is about 150 times that of Mars. The atmosphere of Venus is about 96% CO2, not 0.04% CO2 as on earth. Also it is closer to the sun, inherently hotter.]*

### **Thawing permafrost cools Arctic currents: This might affect fish stocks**

Press Release by University of Copenhagen, April 12, 2021 [H/t Bernie Kepshire]

<https://phys.org/news/2021-04-permafrost-cools-arctic-currents-affect.html>

Link to paper: Permafrost Promotes Shallow Groundwater Flow and Warmer Headwater Streams

By Ylva Sjöberg et al., Water Resources Research, Dec 11, 2020

<https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2020WR027463>

### ***Questioning the Orthodoxy***

#### **Tim Flannery's Latest Climate Triumph**

By Tony Thomas, Quadrant, Apr 15, 2021

<https://quadrant.org.au/opinion/doomed-planet/2021/04/152721/>

#### **But if CO2 drives temperature...**

By John Robson, Climate Discussion Nexus, Apr 14, 2021

<https://climatediscussionnexus.com/2021/04/14/but-if-co2-drives-temperature-2/>

“If climate science can’t answer those questions, it is only settled in the same sense that the *Titanic* is.”

#### **‘The Science’ Isn’t Settled, Only the Spin**

By Robert Murray, Quadrant, Apr 9, 2021

<https://quadrant.org.au/opinion/doomed-planet/2021/04/the-science-isnt-settled-only-the-spin/>

“The IPCC is effectively a global climate science monopoly, with unique power to estimate long-term climate trends and ways to mitigate them, such as the Paris Accords. It has access to a budget of billions, while sceptical scientists have barely peanuts for research and publicity. In Australia they are volunteers.”

#### **Show us the lack of money**

By John Robson, Climate Discussion Nexus, Apr 14, 2021

<https://climatediscussionnexus.com/2021/04/14/show-us-the-lack-of-money/>

“As Tony Heller acerbically Tweeted recently, ‘Climate alarmists believe the relatively tiny amount of money oil companies have distributed has corrupted scientists, but reject the idea that tens of billions of taxpayer dollars distributed by politicians has corrupted academia.’ And indeed the idea that people in government are unusually pure of motive, or insensitive to incentives, is strikingly naïve or worse.”

### ***After Paris!***

#### **The Fossil Fuel Dichotomy: Biden and the East’s Contrasting Energy Approach**

By Vijay Jayaraj, Master Resource, Apr 14, 2021

<https://www.masterresource.org/climate-policy/fossil-fuel-dichotomy-biden-east/>

#### **Ahead Of G20, India Slams Linking Climate Issues To Economic Recovery**

The US administration has been pushing for a strong climate agenda as part of the process of recovery from the pandemic.

Press Trust of India, Apr 13, 2021

<https://www.ndtv.com/india-news/ahead-of-g20-india-slams-linking-climate-issues-to-economic-recovery-2412211>

#### **Boris Johnson battling alone on world stage to save COP26 climate conference as other countries demand it be delayed**

By Natasha Clark and Harry Cole, The Sun, Via WUWT, Apr 15, 2021

<https://wattsupwiththat.com/2021/04/15/boris-johnson-battling-alone-on-world-stage-to-save-cop26-climate-conference-as-other-countries-demand-it-be-delayed/>

### ***Change in US Administrations***

#### **Biden’s Green Energy Plan Declares War on American Energy**

By Stephen Moore, Heartland Daily, Apr 13, 2021

<https://heartlanddailynews.com/2021/04/bidens-green-energy-plan-declares-war-on-american-energy/>

### **What will we get for a multitrillion-dollar energy policy?**

By Peter Gorssman, The Hill, Apr 14, 2021

<https://thehill.com/opinion/energy-environment/548128-what-will-we-get-for-a-multi-trillion-dollar-energy-policy#.YHcUf2VF1uA.twitter>

“Proponents of Biden’s energy policies claim that they will not only save life on Earth but will also have all sorts of social benefits.

“But not spending trillions of dollars to have a system that does the same thing our electric system does now could have even greater social benefit.”

### **China’s Xi Jinping has not committed to Biden climate summit, John Kerry says**

By Mark Suleymanov, New York Post, April 13, 2021

<https://nypost.com/2021/04/13/chinas-xi-has-not-agreed-to-biden-climate-summit-john-kerry/>

### **China, India & Brazil reluctant to cave in to US pressure on new climate targets**

By Staff, NYT, Via GWPF, Apr 14, 2021

<https://www.thegwpf.com/china-india-brazil-reluctant-to-cave-in-to-us-pressure-on-new-climate-targets/>

### **The Myth of Climate Refugees**

By H. Sterling Burnett, Townhall, Apr 10, 2021

<https://townhall.com/columnists/hsterlingburnett/2021/04/10/the-myth-of-climate-refugees-n2587694>

### ***Problems in the Orthodoxy***

#### **China's environmental data: The world's biggest polluter in numbers**

By AFP Staff Writers, Beijing (AFP), April 14, 2021

[https://www.terraily.com/reports/Chinas\\_environmental\\_data\\_The\\_worlds\\_biggest\\_polluter\\_in\\_numbers\\_999.html](https://www.terraily.com/reports/Chinas_environmental_data_The_worlds_biggest_polluter_in_numbers_999.html)

“In 2019, China's greenhouse gas emissions were an estimated 13.92 billion tonnes, twice as much as the United States.”

### **BASIC nations bat for finances from developed world to fight climate change**

The 30th session of the ministerial committee was held on Thursday which was headed by Union Minister Prakash Javadekar

By Shreya Jai, Business Standard, Apr 8, 2021

[https://www.business-standard.com/article/current-affairs/basic-nations-bat-for-finances-from-developed-world-to-fight-climate-change-121040801560\\_1.html](https://www.business-standard.com/article/current-affairs/basic-nations-bat-for-finances-from-developed-world-to-fight-climate-change-121040801560_1.html)

### **China pledged to cut emissions, then went on a coal spree**

By Michael Standaert, Green Biz, Apr 1, 2021

<https://www.greenbiz.com/article/china-pledged-cut-emissions-then-went-coal-spreed>

### **Why China is still clinging to coal**

Over half the coal plants under development globally are in China, and the country isn’t slowing down, a new report found.

By Lili Pike, VOX, Apr 6, 2021

<https://www.vox.com/2021/4/6/22369284/china-coal-power-economy-climate-change>

### **For Mexico's president, the future isn't renewable energy — it's coal**

By Staff, The Los Angeles Times, Via WUWT, Apr 13, 2021

<https://wattsupwiththat.com/2021/04/13/for-mexicos-president-the-future-isnt-renewable-energy-its-coal/>

### **India holds out against pollution 'pressure' ahead of climate summits**

By AFP Staff Writers, New Delhi (AFP), April 14, 2021

[https://www.energy-daily.com/reports/India\\_holds\\_out\\_against\\_pollution\\_pressure\\_ahead\\_of\\_climate\\_summits\\_999.html](https://www.energy-daily.com/reports/India_holds_out_against_pollution_pressure_ahead_of_climate_summits_999.html)

### ***Seeking a Common Ground***

#### **The Infrastructure Problems of the National Weather Service**

By Cliff Mass, Weather Blog, Apr 15, 2021

<https://cliffmass.blogspot.com/2021/04/infrastructure-problems-of-national.html>

### **Are We Stifling Debate on the Extent of Carbon Dioxide's Role in Global Warming?**

Should Japan embark on Co2 reduction negotiations without understanding the essence of the matter, it may end up squandering an enormous amount of its wealth for no purpose.

By Shohei Nagatsuji, Japan Forward, Apr 8, 2021

<https://japan-forward.com/are-we-stifling-debate-on-the-extent-of-carbon-dioxides-role-in-global-warming/>

### **How we fool ourselves. Part II: Scientific consensus building**

By Judith Curry, Climate Etc. Apr 10, 2021

<https://judithcurry.com/2021/04/10/how-we-fool-ourselves-part-ii-scientific-consensus-building/#more-27378>

### **One of the most famous skeptics in the world just died — but who's going to mention that**

By Jo Nova, Her Blog, Apr 10, 2021

<https://joannenova.com.au/2021/04/one-of-the-most-famous-skeptics-in-the-world-just-died-but-no-ones-going-to-mention-that/>

*[SEPP Comment: Includes a note from the Duke of Edinburgh thanking Ian Plimer for his book.]*

### **Booker On Prince Philip**

By Paul Homewood, Not a Lot of People Know That, Apr 9, 2021

<https://notalotofpeopleknowthat.wordpress.com/2021/04/09/booker-on-prince-philip/>

### ***Science, Policy, and Evidence***

#### **German Ministry Of Health Spokesman Can't Cite One Single Scientific Study Showing Lockdowns Are Effective**

By P Gosselin, No Tricks Zone, Apr 11, 2021

<https://notrickszone.com/2021/04/11/german-ministry-of-health-spokesman-cant-cite-one-single-scientific-study-showing-lockdowns-are-effective/>

**Green regs should not be one size fits all**

By Ellen Wald, The Hill, Apr 7, 2021

<https://thehill.com/opinion/energy-environment/546967-green-regs-should-not-be-one-size-fits-all>

### ***Review of Recent Scientific Articles by CO2 Science***

#### **Elevated CO2 Increases Flavonoid Accumulation and Cadmium Content in Black Locust Seedlings**

Zhang, C., Jia, X., Zhao, Y., Wang, L., Cao, K., Zhang, N., Gao, Y. and Wang, Z. 2021. The combined effects of elevated atmospheric CO2 and cadmium exposure on flavonoids in the leaves of *Robinia pseudoacacia* L. seedlings. *Exotoxicology and Environmental Safety* 210: 111878, doi.org/10.1016/j.jecoenv.2020.111878. April 16, 2021

<http://www.co2science.org/articles/V24/apr/a7.php>

#### **Three Decades of Change in Soil Carbon and Nitrogen Stocks at a Subtropical Australian Site**

Dalal, R.C., Thornton, C.M., Allen, D.E., Kopittke, P.M. 2021. A study over 33 years shows that carbon and nitrogen stocks in a subtropical soil are increasing under native vegetation in a changing climate. *Science of the Total Environment* 772: 145019, doi.org/10.1016/j.scitotenv.2021.145019. Apr 14, 2021

<http://www.co2science.org/articles/V24/apr/a6.php>

“Regardless of the likely mechanism(s) responsible, it is clear that the increase in the SOC [soil organic carbon (SOC)] stock observed at this pristine subtropical site is in *direct opposition* to model-based theory, which suggests it should have decreased in response to the approximate 1°C rise in temperature over the 33 year period of study.”

#### **The Response of Sorghum to Elevated CO2, Water Stress and Nitrogen Availability**

Asadi, M. and Eshghizadeh, H.R. 2021. Response of sorghum genotypes to water deficit stress under different CO2 and nitrogen levels. *Plant Physiology and Biochemistry* 158: 255-264. Apr 12, 2021

<http://www.co2science.org/articles/V24/apr/a5.php>

Not surprisingly, water stress negatively impacted sorghum growth while elevated CO2 and nitrogen addition enhanced it. More specifically, averaged across all treatments drought reduced shoot dry weight by 36% whereas nitrogen addition and elevated CO2 enhanced it by 22% and 29%, respectively.

“Other positive findings related to elevated CO2 included (1) an enhancement of relative water content by 10% under water deficit stress, (2) improvement of the photosynthetic apparatus, and a (3) reduction in oxidative damage and stress. Consequently, in light of all their findings, Asadi and Eshghizadeh conclude ‘elevated CO2 alleviated the destructive effect of water limited stress on the sorghum biochemical traits.’”

### ***Models v. Observations***

#### **Current climate model simulations overestimate future sea-level rise**

Press Release by Utrecht University, Utrecht University Faculty of Science, Apr 9, 2021 [H/t WUWT]

<https://phys.org/news/2021-04-current-climate-simulations-overestimate-future.html>

Link to paper: Ocean eddies strongly affect global mean sea-level projections

By René M. van Westen and Henk A. Dijkstra, *Science Advances*, Apr 9, 2021

<https://advances.sciencemag.org/content/7/15/eabf1674>

### **Empirical Evidence vs. Ecological Modelling**

By Vic Jurskis, Quadrant, Apr 17, 2021

<https://quadrant.org.au/opinion/doomed-planet/2021/04/empirical-evidence-vs-ecological-modelling/>

[SEPP Comment: On wildfires in Australia.]

### **Observed vs predicted trends in Northern Hemisphere snow cover**

By John Robson, Climate Discussion Nexus, Apr 14, 2021

<https://climatediscussionnexus.com/2021/04/14/observed-vs-predicted-trends-in-northern-hemisphere-snow-cover/>

### ***Measurement Issues -- Surface***

#### **8 Longterm Australia Stations Altered From Warming To Cooling by NASA GISS.**

By Kirye and P Gosselin, No Tricks Zone, Apr 16, 2021

<https://notrickszone.com/2021/04/16/8-longterm-australia-stations-altered-from-warming-to-cooling-by-nasa-giss/>

“Rarely do we see data homogenized so that a warming trend gets changed to a cooling trend. It’s always the other way around.

“No doubt many parts of the globe warmed since 1880. But NASA data alterations make it look like it’s more than it actually is.”

### ***Measurement Issues -- Atmosphere***

#### **Differences of cloud top height between satellites and ground-based radar revealed**

By Staff Writers, Beijing, China (SPX), Apr 13, 2021

[https://www.spacedaily.com/reports/Differences\\_of\\_cloud\\_top\\_height\\_between\\_satellites\\_and\\_ground\\_based\\_radar\\_revealed\\_999.html](https://www.spacedaily.com/reports/Differences_of_cloud_top_height_between_satellites_and_ground_based_radar_revealed_999.html)

Link to paper: Assessment of FY-4A and Himawari-8 Cloud Top Height Retrieval through Comparison with Ground-Based Millimeter Radar at Sites in Tibet and Beijing

By Bo Liu, Juan Huo, Daren Lyu & Xin Wang. Advances in Atmospheric Sciences, Apr 10, 2021

<https://link.springer.com/article/10.1007/s00376-021-0337-2>

#### **Atmospheric boundary layer over the central and western equatorial Pacific Ocean observed during COARE and CEPEX**

By Yolande Serra, et al. Journal of Geophysical Research Atmospheres, October 1997

[https://www.researchgate.net/publication/240486909\\_Atmospheric\\_boundary\\_layer\\_over\\_the\\_central\\_and\\_western\\_equatorial\\_Pacific\\_Ocean\\_observed\\_during\\_COARE\\_and\\_CEPEX](https://www.researchgate.net/publication/240486909_Atmospheric_boundary_layer_over_the_central_and_western_equatorial_Pacific_Ocean_observed_during_COARE_and_CEPEX)

#### **Despite pandemic shutdowns, carbon dioxide and methane surged in 2020**

Carbon dioxide levels are now higher than at anytime in the past 3.6 million years

By Staff, NOAA, Apr 7, 2021

<https://research.noaa.gov/article/ArtMID/587/ArticleID/2742/Despite-pandemic-shutdowns-carbon-dioxide-and-methane-surged-in-2020>

### ***Changing Weather***

#### **Our 2021 hurricane forecast: A BIG season is on the way**

Be prepared! The man who called Hurricane Sandy forecasts a rough 2021 U.S. hurricane season.

By Joe Bastardi, CFACT, Apr 13, 2021

[https://www.cfact.org/2021/04/13/our-hurricane-forecast-another-big-year-is-on-the-way/?mc\\_cid=6abdf4ea81&mc\\_eid=ffd82d3222](https://www.cfact.org/2021/04/13/our-hurricane-forecast-another-big-year-is-on-the-way/?mc_cid=6abdf4ea81&mc_eid=ffd82d3222)



### **Winter is not going away without a fight**

By Paul Dorian, Perspecta Weather, Via WUWT, Apr 13, 2021

<https://wattsupwiththat.com/2021/04/13/winter-is-not-going-away-without-a-fight/>

### **From Europe to Alaska, parts of the world are exceptionally cold right now**

By Jason Samenow, Washington Post, Apr 8, 2021

<https://www.washingtonpost.com/weather/2021/04/07/record-cold-europe-alaska/>

### **French growers feel the pinch as cold snap wrecks crops**

By AFP Staff Writers, Ampuis, France (AFP), April 13, 2021

[https://www.seeddaily.com/reports/French\\_growers\\_feel\\_the\\_pinch\\_as\\_cold\\_snap\\_wrecks\\_crops\\_999.html](https://www.seeddaily.com/reports/French_growers_feel_the_pinch_as_cold_snap_wrecks_crops_999.html)

"We should have six bunches of grapes per vine. Now we're hoping for maybe one,' Gerin told AFP at his 17-hectare property in the heart of the Rhone valley, one of the country's prime wine-growing regions."

### **France declares 'calamité agricole' after record cold: What is it?**

The emergency support comes after freezing weather caused significant damage to crops

By Hannah Thompson, Connexion, Apr 9, 2021

<https://www.connexionfrance.com/French-news/France-declares-calamite-agricole-after-record-cold-What-is-it-We-explain-as-cold-continues>

### **Australian Floods**

By Paul Homewood, Not a Lot of People Know That, Apr 6, 2021

<https://notalotofpeopleknowthat.wordpress.com/2021/04/06/australian-floods/>

### **Frosty Morning and an Extraordinary Land Breeze**

By Cliff Mass, Weather Blog, Apr 11, 2021

<https://cliffmass.blogspot.com/2021/04/frosty-morning-and-extraordinary-land.html>

### ***Changing Cryosphere – Land / Sea Ice***

#### **Mass balance of the Antarctic ice sheet 1992–2016: reconciling results from GRACE gravimetry with ICESat, ERS1/2 and Envisat altimetry**

By Charles Rotter, WUWT, Apr 8, 2021

<https://wattsupwiththat.com/2021/04/08/mass-balance-of-the-antarctic-ice-sheet-1992-2016-reconciling-results-from-grace-gravimetry-with-icesat-ers1-2-and-envisat-altimetry/>

Link to paper: Mass balance of the Antarctic ice sheet 1992–2016: reconciling results from GRACE gravimetry with ICESat, ERS1/2 and Envisat altimetry

By H. Jay Zwally, et al. Journal of Glaciology, Mar 29, 2021

<https://www.cambridge.org/core/journals/journal-of-glaciology/article/mass-balance-of-the-antarctic-ice-sheet-19922016-reconciling-results-from-grace-gravimetry-with-icesat-ers12-and-envisat-altimetry/0A29BAA84961428700886DCCE201912F>

### **March Sea Ice: Arctic Stable 16 Years, Gains 504,000 Sq Km Since 2017! Antarctic Above Mean!**

By P Gosselin, No Tricks Zone, Apr 14, 2021

<https://notrickszone.com/2021/04/14/march-sea-ice-arctic-stable16-years-gains-504000-sq-km-since-2017-antarctic-above-mean/>

*[SEPP Comment: For the Arctic, the headline uses part of the data. Unlike NASA and others, the author shows all the data as well.]*

### **New Study Suggests Southwest Greenland Was 6-7°C Warmer Than Today 9,000-5,500 Years Ago**

By Kenneth Richard, No Tricks Zone, Apr 12, 2021

<https://notrickszone.com/2021/04/12/new-study-suggests-southwest-greenland-was-6-7c-warmer-than-today-9000-5500-years-ago/>

Link to one paper: Insolation vs. meltwater control of productivity and sea surface conditions off SW Greenland during the Holocene

By Estelle Allan, et al. Boreas, 2021

[http://www.glyfac.buffalo.edu/Faculty/briner/buf/pubs/Allan\\_et\\_al\\_2021.pdf](http://www.glyfac.buffalo.edu/Faculty/briner/buf/pubs/Allan_et_al_2021.pdf)

### **MWP & LIA In The Ross Sea**

By Paul Homewood, Not a Lot of People Know That, Apr 11, 2021

<https://notalotofpeopleknowthat.wordpress.com/2021/04/11/mwp-lia-in-the-ross-sea/>

“This all indicates that modern glacier retreats are just part of a much longer climatic cycle.”

*[SEPP Comment: Evidence climate modelers ignore!]*

### **Ross Ice Shelf Retreated 30 Miles In 19thC**

By Paul Homewood, Not a Lot of People Know That, Apr 9, 2021

<https://notalotofpeopleknowthat.wordpress.com/2021/04/09/ross-ice-shelf-retreated-30-miles-in-19thc/>

### **Antarctica Was Warmer In Middle Ages**

By Paul Homewood, Not a Lot of People Know That, Apr 16, 2021

<https://notalotofpeopleknowthat.wordpress.com/2021/04/16/antarctica-was-warmer-in-middle-ages/>

### **Harp seal pup production poor in Gulf of St. Lawrence but it won't impact the population**

By Susan Crockford, Polar Bear Science, Apr 12, 2021

<https://polarbearscience.com/2021/04/12/harp-seal-pup-production-poor-in-gulf-of-st-lawrence-but-it-wont-impact-the-population/>

### ***Changing Earth***

#### **NASA satellites detect signs of volcanic unrest years before eruptions**

By Esprit Smith for NASA Earth Science News

Greenbelt MD (SPX) Apr 14, 2021

[https://www.terraviva.com/reports/NASA\\_satellites\\_detect\\_signs\\_of\\_volcanic\\_unrest\\_years\\_before\\_eruptions\\_999.html](https://www.terraviva.com/reports/NASA_satellites_detect_signs_of_volcanic_unrest_years_before_eruptions_999.html)

### ***Agriculture Issues & Fear of Famine***

#### **Brazil eyes record grain harvest as China demand booms**

By AFP Staff Writers, Salto Do Jacui, Brazil (AFP), April 9, 2021

[https://www.seeddaily.com/reports/Brazil\\_eyes\\_record\\_grain\\_harvest\\_as\\_China\\_demand\\_booms\\_999.html](https://www.seeddaily.com/reports/Brazil_eyes_record_grain_harvest_as_China_demand_booms_999.html)

*[SEPP Comment: Making the administration's claims of climate refugees fleeing to the US a myth!]*

**BBC Say Bangladesh Farmers Are Suffering From Climate Change—As Production Triples**  
By Paul Homewood, Not a Lot of People Know That, Apr 6, 2021  
<https://notalotofpeopleknowthat.wordpress.com/2021/04/06/bbc-say-bangladesh-farmers-are-suffering-from-climate-change-as-production-triples/>

**Food system emissions need attention at Biden's climate summit**  
Philippe Benoit & Kevin Karl, The Hill, Apr 11, 2021  
<https://thehill.com/opinion/energy-environment/547512-food-system-emissions-need-attention-at-biden-climate-summit>  
[SEPP Comment: Doubt they will address the enormous benefits of more CO2 for crops.]

### ***Lowering Standards***

**Citing grave threat, Scientific American replaces 'climate change' with 'climate emergency'**  
By David Knowles, Yahoo News, Apr 12, 2021  
<https://www.yahoo.com/news/citing-grave-threat-scientific-american-replacing-climate-change-with-climate-emergency-181629578.html>

Link to article: We Are Living in a Climate Emergency, and We're Going to Say So  
It's time to use a term that more than 13,000 scientists agree is needed  
By Mark Fischetti, Scientific American, Apr 12, 2021  
<https://www.scientificamerican.com/article/we-are-living-in-a-climate-emergency-and-were-going-to-say-so/>

**Science Vs. Scientific American And NASA**  
By Tony Heller, His Blog, Apr 16, 2021  
<https://realclimatescience.com/2021/04/science-vs-scientific-american-and-nasa/>

**Now do climate theory**  
By John Robson, Climate Discussion Nexus, Apr 14, 2021  
<https://climatediscussionnexus.com/2021/04/14/now-do-climate-theory/>  
[SEPP Comment: On National Geographic science executive editor.]

**BBC Play Green Turtle Climate Card—But Ignore The Real Threats**  
By Paul Homewood, Not a Lot of People Know That, Apr 14, 2021  
<https://notalotofpeopleknowthat.wordpress.com/2021/04/14/bbc-play-green-turtle-climate-card-but-ignore-the-real-threats/>

***Communicating Better to the Public – Use Yellow (Green) Journalism?***  
**Climate Distress? ABC offers therapy and forgiveness to failed Ecowarriors who still use plastic nappies and styrofoam cups**  
By Jo Nova, Her Blog, Apr 14, 2021  
<https://joannenova.com.au/2021/04/climate-distress-abc-offers-therapy-and-forgiveness-to-failed-ecowarriors-who-still-need-plastic-nappies-and-styrofoam/>  
“The ABC is just a Lifestyle Magazine for the Upperclass, paid for by everyone else.”

**Daily Express Pushing To End Meat Eating**  
By Paul Homewood, Not a Lot of People Know That, Apr 10, 2021  
<https://notalotofpeopleknowthat.wordpress.com/2021/04/10/daily-express-pushing-for-end-of-meat/>

“Many dairy and livestock farmers will be unable to transition to other types of food production, because of the nature of their land and climate. Remember too the uncounted value which farmers generate by their custodianship of the countryside. Eco loons would rather see the land return to the wild.

“And what will we eat instead? As I pointed out a few weeks ago, most of the food eaten by vegetarians has to be flown into the country, making a nonsense of Net Zero targets.”

*[SEPP Comment: Urban gardens sound nice, but feed few.]*

### **Follow The Science? How The Media's Hypocrisy Undermines Critical Thinking In The Age Of COVID**

By Cameron English, ACSH, Apr 12, 2021

<https://www.acsh.org/news/2021/04/12/follow-science-how-medias-hypocrisy-undermines-critical-thinking-age-covid%C2%A0-15467>

### **Glorious Gods! Writers at The Guardian think they rule the world**

By Jo Nova, Her Blog, Apr 14, 2021

<https://joannenova.com.au/2021/04/glorious-gods-writers-at-the-guardian-think-they-rule-the-world/>

### **Guardian Climate Expose: Big Oil Companies Pay Bonuses to CEOs who Increase Profits**

By Eric Worrall, WUWT, Apr 15, 2021

<https://wattsupwiththat.com/2021/04/15/guardian-climate-expose-big-oil-companies-pay-bonuses-to-ceos-who-increase-profits/>

### **Saving pollinators from an imaginary bee-pocalypse**

Honeybees are doing OK, despite varroa mites, the Covid-driven economy and other problems

By Paul Driessen, WUWT, Apr 13, 2021

<https://wattsupwiththat.com/2021/04/13/saving-pollinators-from-an-imaginary-bee-pocalypse/>

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

#### **Ocean temperature reconstructed over the last 700,000 years**

Press Release, University of Bern, Apr 14, 2021 [H/t WUWT]

[https://www.eurekalert.org/pub\\_releases/2021-04/uob-otr041421.php](https://www.eurekalert.org/pub_releases/2021-04/uob-otr041421.php)

Link to paper: Snapshots of mean ocean temperature over the last 700 000 years using noble gases in the EPICA Dome C ice core

By Marcel Haeberli, et al. Climate of the Past, Apr 14, 2021

<https://cp.copernicus.org/articles/17/843/2021/>

From Richard Courtney: “They claim to determine ancient ocean temperatures to a precision to 0.4 degrees C?”

### **Bad Advice From Govt Pension Scheme**

By Paul Homewood, Not a Lot of People Know That, Apr 12, 2021

<https://notalotofpeopleknowthat.wordpress.com/2021/04/12/bad-advice-from-govt-pension-scheme/>

“I’m no expert, but I am sure a pension provider or any other financial adviser has a legal duty to be open and honest.”

### **Aviva Blame El Nino On Climate Change**

By Paul Homewood, Not a Lot of People Know That, Apr 12, 2021

<https://notalotofpeopleknowthat.wordpress.com/2021/04/12/aviva-blame-el-nino-on-climate-change/>

[SEPP Comment: Aviva is a British multinational insurance company headquartered in London, England. According to its Wikipedia, “In the United Kingdom, Aviva is the largest general insurer and a leading life and pensions provider.”]

### **Australia likely to join the Net Zero charade**

By Staff, The Australian, Via GWPF, Apr 13, 2021

<https://www.thegwpf.com/australia-likely-to-join-the-habitual-net-zero-charade/>

### **Aussie ABC: Deal with Climate Guilt by Shifting Blame to Everyone Else**

By Eric Worrall, WUWT, Apr 14, 2021

<https://wattsupwiththat.com/2021/04/14/aussie-abc-deal-with-climate-guilt-by-shifting-blame-to-everyone-else/>

### ***Communicating Better to the Public – Make things up.***

#### **Sea levels are going to rise by at least 20ft. We can do something about it**

To avoid the grimmest outlook posed by warming oceans, we need to extract heat-trapping gases from the atmosphere

By Harold Wanless, The Guardian, Apr 13, 2021 [H/t Bernie Kepshire]

<https://www.theguardian.com/environment/commentisfree/2021/apr/13/sea-level-rise-climate-emergency-harold-wanless>

“Harold R Wanless, a professor of geography and regional studies at University of Miami, was one of Politico’s 50 “visionaries who are transforming American politics” in 2016.”

[SEPP Comment: As a geologist in Florida, he should know that during the last interglacial seas covered much of Florida and were about 20 to 30 feet [7 to 10 meters] higher than today. How does this “visionary” plan to stop sea level rise caused by nature?]

### **US power sector is halfway to zero carbon emissions**

New Berkeley Lab study reviews progress towards a carbon-free power sector

By Kiran Julin, News Release, DO3/Lawrence Berkeley National Laboratory, Apr 13, 2021 [H/t WUWT]

[https://www.eurekalert.org/pub\\_releases/2021-04/dbnl-ups041321.php](https://www.eurekalert.org/pub_releases/2021-04/dbnl-ups041321.php)

Link to report: Halfway to Zero: Progress towards a Carbon-Free Power Sector

By Ryan Wiser, et al. Berkeley Lab, April 2021

<https://emp.lbl.gov/publications/halfway-zero-progress-towards-carbon>

From the abstract: “Other metrics also evolved differently than projected: total consumer electricity costs (i.e., bills) were 18% lower; **costs to human health and the climate** were 92% and **52% lower**, respectively; and the number of jobs in electricity generation was 29% higher.”

[SEPP Comment: Boldface added. By reliable natural gas replacing reliable coal, which no one predicted! We do not have the technology to make wind and solar reliable!]

### **Claim: 1.5C Global Warming by 2030 – But There is Still a Chance to Avoid 2C**

By Eric Worrall, WUWT, Apr 14, 2021

<https://wattsupwiththat.com/2021/04/14/claim-1-5c-global-warming-by-2030-but-there-is-still-a-chance-to-avoid-2c/>

### **Global warming [modeling] is making India's monsoon season more erratic**

By Brooks Hays, Washington DC, (UPI) Apr 14, 2021

[https://www.terraily.com/reports/Global\\_warming\\_is\\_making\\_Indias\\_monsoon\\_season\\_more\\_erratic\\_999.html](https://www.terraily.com/reports/Global_warming_is_making_Indias_monsoon_season_more_erratic_999.html)

Link to paper: Robust increase of Indian monsoon rainfall and its variability under future warming in CMIP6 models

By Anja Katzenberger, et al. Earth System Dynamics, Apr 14, 2021

<https://esd.copernicus.org/articles/12/367/2021/>

### **Claim: Climate Change Driving Doctors out of the Aussie Northern Territory**

By Eric Worrall, WUWT, Apr 12, 2021

<https://wattsupwiththat.com/2021/04/12/claim-climate-change-driving-doctors-out-of-the-aussie-northern-territory/>

### ***Communicating Better to the Public – Do a Poll?***

#### **Scientific Survey Shows Voters Across the Political Spectrum Are Ideologically Deluded**

By James D. Agresti, Just Facts, Apr 16, 2021 [H/t WUWT]

[https://www.justfacts.com/news\\_2020\\_survey\\_voter\\_knowledge#results](https://www.justfacts.com/news_2020_survey_voter_knowledge#results)

### ***Communicating Better to the Public – Go Personal.***

#### **David Attenborough declares ‘world would do better if humans weren’t here’**

By Paul Homewood, Not a Lot of People Know That, Apr 15, 2021

<https://notalotofpeopleknowthat.wordpress.com/2021/04/15/david-attenborough-declares-world-would-do-better-if-humans-werent-here/>

“He [Attenborough] added: ‘That’s almost inevitable to some degree but let us realise that we are intruders, that we are latecomers and that the natural world, by-and-large, would do much better if we weren’t there at all.’”

*[SEPP Comment: Does he include himself, his sponsors?]*

#### **‘Abolish the Rich’ to Combat Climate Crisis and Overpopulation, Says Far-Left MP**

**Claudia Webbe**

By Paul Homewood, Not a Lot of People Know That, Apr 15, 2021

<https://notalotofpeopleknowthat.wordpress.com/2021/04/15/abolish-the-rich-to-combat-climate-crisis-and-overpopulation-says-far-left-mp-claudia-webbe/>

According to Wikipedia: “The basic annual salary of a Member of Parliament (MP) in the House of Commons is £81,932, as of April 2020. In addition, MPs are able to claim allowances to cover the costs of running an office and employing staff, and maintaining a constituency residence or a residence in London.”

*[SEPP Comment: To most people, she is rich. Does she include herself among those to be abolished?]*

### ***Communicating Better to the Public – Use Children for Propaganda***

#### **Greta Thunberg’s TV Show a Massive Ratings Flop**

By James Delingpole, Breitbart, Apr 14, 2021

<https://www.breitbart.com/europe/2021/04/14/delingpole-doom-goblin-greta-thunbergs-tv-show-is-a-massive-ratings-flop/>

### ***Expanding the Orthodoxy***

#### **Belong To The Climate Club Or Get Penalized: The EU’s New Trade Protectionism**

By Tilak Doshi, Forbes, Via WUWT, Apr 6, 2021

<https://wattsupwiththat.com/2021/04/06/belong-to-the-climate-club-or-get-penalized-the-eus-new-trade-protectionism/>

[SEPP Comment: It's just not only the "Ugly American" anymore!]

### ***Questioning European Green***

#### **The Green Mirage: Why a Low-Carbon Economy May be Further Off Than We Think**

By John Constable For Civitas, June 17, 2020

Summary:

[https://www.realclearpublicaffairs.com/public\\_affairs/2020/06/17/the\\_green\\_mirage\\_why\\_a\\_low-carbon\\_economy\\_may\\_be\\_further\\_off\\_than\\_we\\_think\\_496519.html](https://www.realclearpublicaffairs.com/public_affairs/2020/06/17/the_green_mirage_why_a_low-carbon_economy_may_be_further_off_than_we_think_496519.html)

Full Report: <http://www.civitas.org.uk/content/files/GreenMirage.pdf>

From the report: "In conclusion, the European Union's target-led, state-managed and subsidy-driven policies are likely to cause the premature adoption of sub-optimal and costly technologies, exhibiting low productivity, with resulting net economic contraction, relative to the alternatives, and wealth destruction."

#### **The EU's Stunning Green Hypocrisy, At Least Trump Was Honest About Targets**

By Mish, Mish Talk, Apr 15, 2021 [H/t GWPF]

<https://www.thestreet.com/mishtalk/economics/the-eus-stunning-green-hypocrisy-at-least-trump-was-honest-about-targets>

#### **2021 German Coal Plant "Phaseout" Lasted Only 8 Days...Put Back Online To Stabilize Shaky Grid**

German coal phaseout – lasted only 8 days

By Blackout News (Translated, edited by P. Gosselin) No Tricks zone, Apr 13, 2021

<https://notrickszone.com/2021/04/13/2021-german-coal-plant-phaseout-lasting-only-8-days-put-back-online-to-stabilize-shaky-grid/>

### ***Questioning Green Elsewhere***

#### **Green Spending Is Mere Virtue Signaling That Hurts the Poor**

By Frank Lasee, Real Clear Energy, April 14, 2021

[https://www.realclearenergy.org/articles/2021/04/14/green\\_spending\\_is\\_mere\\_virtue\\_signaling\\_that\\_hurts\\_the\\_poor\\_772726.html](https://www.realclearenergy.org/articles/2021/04/14/green_spending_is_mere_virtue_signaling_that_hurts_the_poor_772726.html)

### ***Funding Issues***

#### **Climate spending is a story of the century**

By Ben Geman, Andrew Freedman, Axios, Apr 9, 2021

<https://www.axios.com/climate-spending-century-investment-1dcf36a4-1587-4a88-ade1-d5709470c2ed.html>

### ***Litigation Issues***

#### **Appeals Court Upholds Dismissal of NYC's Climate Lawsuit**

By William Allison, Energy In Depth, April 1, 2021

<https://eidclimate.org/appeals-court-upholds-dismissal-of-nycs-climate-lawsuit-dealing-latest-defeat-to-unsuccessful-campaign/>

#### **Blame-Game Litigation Won't Solve Climate Change**

By Gale Norton and Martha Whitmore, Bloomberg Law, Apr 9, 2021

<https://news.bloomberglaw.com/environment-and-energy/blame-game-litigation-wont-solve-climate-change>

“The essential difference between tobacco litigation and climate litigation is that advertising was a central cause of the public’s smoking habits.

“There is no similar correlation between fossil fuel marketing practices and climate change. People fill up their tanks with gasoline because they want to commute to work or take a family vacation.”

### ***Subsidies and Mandates Forever***

#### **Power Infrastructure Prominent in Biden’s \$2.25 Trillion Blueprint**

By Sonal Patel, Power Mag, Apr 1, 2021

[https://www.powermag.com/power-infrastructure-prominent-in-bidens-2-25-trillion-blueprint/?oly\\_enc\\_id=7809H6412578JOB](https://www.powermag.com/power-infrastructure-prominent-in-bidens-2-25-trillion-blueprint/?oly_enc_id=7809H6412578JOB)

“As part of the president’s drive to address climate change, the plan also proposes closing tax loopholes for fossil fuel, buttressing carbon capture, and boosting hydrogen demonstrations with a new production tax credit (PTC).”

#### **The Value of Energy Tax Incentives for Different Types of Energy Resources**

By Molly Sherlock, et al. Congressional Research Service, Updated March 19, 2019

<https://fas.org/sgp/crs/misc/R44852.pdf>

#### **‘Obscene’ windfarm subsidies revealed**

Press Release, Global Warming Policy Forum, Apr 16, 2021

<https://www.thegwpf.com/high-wind-subsidies/>

#### **Beatrice Wind Farm Received £281 Million Subsidy Last Year**

By Paul Homewood, Not a Lot of People Know That, Apr 12, 2021

<https://notalotofpeopleknowthat.wordpress.com/2021/04/12/beatrice-wind-farm-received-281-million-subsidy-last-year/>

#### **Hornsea and the ocean of offshore windfarm subsidies**

By Andrew Montford, GWPF, Apr 14, 2021

<https://www.thegwpf.com/hornsea-windfarm-subsidies/>

### ***EPA and other Regulators on the March***

#### **EPA Publishes 28th Annual U.S. Greenhouse Gas Inventory**

National Emissions By Staff, EPA, Accessed Apr 14, 2021

<https://www.epa.gov/ghgemissions/inventory-us-greenhouse-gas-emissions-and-sinks>

### ***Energy Issues -- US***

#### **ERCOT Conditions Tighten Again as Outages Mount to 32 GW**

By Sonal Patel, Power Mag, Apr 14, 2021

[https://www.powermag.com/ercot-conditions-tighten-again-as-outages-mount-to-32-gw/?oly\\_enc\\_id=7809H6412578JOB](https://www.powermag.com/ercot-conditions-tighten-again-as-outages-mount-to-32-gw/?oly_enc_id=7809H6412578JOB)

#### **Texas Has Renewable Energy – Now It Needs Reliable Energy**

By Brent Bennett, Real Clear Energy, Apr 15, 2021

[https://www.realclearenergy.org/articles/2021/04/15/texas\\_has\\_renewable\\_energy\\_now\\_it\\_needs\\_reliable\\_energy\\_772797.html](https://www.realclearenergy.org/articles/2021/04/15/texas_has_renewable_energy_now_it_needs_reliable_energy_772797.html)



Texas simply doesn't have enough reliable electricity generators – power plants that can be counted on to produce consistently and to ramp up during peak demand. Over the last five years, the Lone Star State has prematurely retired more than 5,000 MW in natural gas and clean coal while its population and economy grew significantly.

*[SEPP Comment: Subsidies to wind and solar have eroded the economics of reliable generation.]*

### **Legislation on Infrastructure Resilience is Key to Grid Security**

By Steven T. Naumann, former Vice President, Transmission and NERC Policy, Exelon, Protect Our Power, No Date

<https://protectourpower.org/blog/legislation-on-infrastructure-resilience-is-key-to-grid-security/>

*[SEPP Comment: The real need is reliable generation.]*

### **New York's Wind Power Plans Make No Sense**

By Daniel Turner, Real Clear Energy, April 13, 2021

[https://www.realclearenergy.org/articles/2021/04/13/new\\_yorks\\_wind\\_power\\_plans\\_make\\_no\\_sense\\_772448.html](https://www.realclearenergy.org/articles/2021/04/13/new_yorks_wind_power_plans_make_no_sense_772448.html)

### ***Washington's Control of Energy***

#### **From JFK To Trump: U.S. Oil Production By President**

By Robert Rapier, Oil Price.com, Apr 14, 2021

<https://oilprice.com/Energy/Energy-General/From-JFK-To-Trump-US-Oil-Production-By-President.html>

### ***Oil and Natural Gas – the Future or the Past?***

#### **The US May Be Getting Smaller, But Our Natural Gas Exports Are Getting Bigger**

By Jude Clemente, Real Clear Energy, April 14, 2021

[https://www.realclearenergy.org/articles/2021/04/14/the\\_us\\_may\\_be\\_getting\\_smaller\\_but\\_our\\_natural\\_gas\\_exports\\_are\\_getting\\_bigger\\_770413.html](https://www.realclearenergy.org/articles/2021/04/14/the_us_may_be_getting_smaller_but_our_natural_gas_exports_are_getting_bigger_770413.html)

### **COVID-19 and Lockdown Response Drive Largest Historical Drop in U.S. Oil Production**

By H. Sterling Burnett, Heartland Daily, Apr 13, 2021

<https://heartlanddailynews.com/2021/04/covid-19-and-lockdown-response-drive-largest-historical-drop-in-u-s-oil-production/>

### ***Alternative, Green (“Clean”) Solar and Wind***

#### **Wind and Solar Cost More**

By Donn Dears, Power For USA, Apr 14, 2021

<https://ddears.com/2021/04/13/wind-and-solar-cost-more/>

Video

### **Climate Insanity: German Greens, Conservatives Push For 100s Of Wind Turbines In Black Forest!**

By P Gosselin, No Tricks Zone, Apr 10, 2021

<https://notrickszone.com/2021/04/10/climate-insanity-german-greens-conservatives-push-for-100s-of-wind-turbines-in-black-forest/>

### ***Alternative, Green (“Clean”) Energy -- Other***

#### **8 Rivers Unveils 560 MW of Allam Cycle Gas-Fired Projects for Colorado, Illinois**

By Sonal Patel, Power Mag, Apr 15, 2021

[https://www.powermag.com/8-rivers-unveils-560-mw-of-allam-cycle-gas-fired-projects-for-colorado-illinois/?oly\\_enc\\_id=7809H6412578JOB](https://www.powermag.com/8-rivers-unveils-560-mw-of-allam-cycle-gas-fired-projects-for-colorado-illinois/?oly_enc_id=7809H6412578JOB)

### **China's plans for Himalayan super dam stoke fears in India**

By Patrick Baert and Bhuvan Bagga in New Delhi

Beijing (AFP) April 11, 2021

[https://www.terraily.com/reports/Chinas\\_plans\\_for\\_Himalayan\\_super\\_dam\\_stoke\\_fears\\_in\\_India\\_999.html](https://www.terraily.com/reports/Chinas_plans_for_Himalayan_super_dam_stoke_fears_in_India_999.html)

### **What's Been Holding Hydrogen Fuel Cells Back, and How to Change That**

By Aaron Larson, Power Mag, Apr 15, 2021

[https://www.powermag.com/whats-been-holding-hydrogen-fuel-cells-back-and-how-to-change-that/?oly\\_enc\\_id=7809H6412578JOB](https://www.powermag.com/whats-been-holding-hydrogen-fuel-cells-back-and-how-to-change-that/?oly_enc_id=7809H6412578JOB)

*[SEPP Comment: Not technically or economically feasible.]*

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

#### **The POWER Interview: Enhancing the Safety of Energy Storage**

By Darrell Proctor, Power Mag, Apr 14, 2021

<https://www.powermag.com/the-power-interview-enhancing-the-safety-of-energy-storage/>

*[SEPP Comment: Does not discuss enormous scope of the issue.]*

### **Apple to build battery-based solar energy storage project in California**

By Stephen Nellis, Reuters, Mar 31, 2021

<https://www.reuters.com/article/us-apple-environment/apple-to-build-battery-based-solar-energy-storage-project-in-california-idUKKBN2BN206>

*[SEPP Comment: According to the press release it will have 240 MWh of storage, less than two hours of the 130 MWs of electricity the solar plant sends to Apple's California facilities. Guess where Apple will get the bulk of its power?]*

### **Suntrace and Baywa r.e. complete largest off-grid solar-battery hybrid system for mining industry**

By Staff Writers, Hamburg, Germany (SPX), Apr 13, 2021

[https://www.solardaily.com/reports/Suntrace\\_and\\_Baywa\\_re\\_complete\\_largest\\_off\\_grid\\_solar\\_battery\\_hybrid\\_system\\_for\\_mining\\_industry\\_999.html](https://www.solardaily.com/reports/Suntrace_and_Baywa_re_complete_largest_off_grid_solar_battery_hybrid_system_for_mining_industry_999.html)

“The Fekola gold mine operates 24-hours a day. During the daytime, the new 30 MW solar plant allows three out of six heavy fuel oil generators to be shut down; the energy production of the residual three generators could also be significantly reduced. The 15.4 MWh battery storage compensates energy generation fluctuations and assures a reliable operation, which allows up to 75% of the electricity demand of the gold mine to be covered by renewable energy during the daytime.”

### **Alternative, Green (“Clean”) Vehicles**

#### **Fed funding fantasy: EV charging**

By David Wojick, CFACT, Apr 10, 2021

<https://www.cfact.org/2021/04/10/fed-funding-fantasy-ev-charging/>

### **Copper demand from auto industry expected to double as EVs ramp up**

By Paul Homewood, Not a Lot of People Know That, Apr 14, 2021

<https://notalotofpeopleknowthat.wordpress.com/2021/04/14/copper-demand-from-auto-industry-expected-to-double-as-evs-ramp-up/>

### ***Health, Energy, and Climate***

#### **New Study Crushes IPCC Alarm...Hails A 22% Global Decline In Natural Disaster Death Risk Since 1990s**

By Kenneth Richard, No Tricks Zone, Apr 15, 2021

<https://notrickszone.com/2021/04/15/new-study-crushes-ipcc-alarm-hails-a-22-global-decline-in-natural-disaster-death-risk-since-1990s/>

Link to paper: Analysis of trends in disaster risk☆

By Nicolas Boccard, International Journal of Disaster Risk Reduction, Feb 1, 2021

<https://www.sciencedirect.com/science/article/abs/pii/S2212420920314916>

### ***Environmental Industry***

#### **Real Threats to Threatened Species**

By Paul Driessen, Heartland Daily, Apr 5, 2021

<https://heartlanddailynews.com/2021/04/real-threats-to-threatened-species/>

### ***Other News that May Be of Interest***

#### **Israel sends Jordan extra water thanks to 'US pressure'**

By AFP Staff Writers, Amman (AFP), April 14, 2021

[https://www.terradaily.com/reports/Israel\\_sends\\_Jordan\\_extra\\_water\\_thanks\\_to\\_US\\_pressure\\_999.html](https://www.terradaily.com/reports/Israel_sends_Jordan_extra_water_thanks_to_US_pressure_999.html)

*[SEPP Comment: Thanks to desalination, Israel has water to spare. See link immediately below.]*

#### **Southern California Desalination Plant Inches Towards Approval**

By Edward Ring, Heartland Daily News, Apr 1, 2021

<https://heartlanddailynews.com/2021/04/southern-california-desalination-plant-inches-towards-approval/>

#### **People may trust computers more than humans**

By Staff Writers. Athens GA (SPX), Apr 14, 2021

[https://www.robodaily.com/reports/People\\_may\\_trust\\_computers\\_more\\_than\\_humans\\_999.html](https://www.robodaily.com/reports/People_may_trust_computers_more_than_humans_999.html)

Link to paper: Humans rely more on algorithms than social influence as a task becomes more difficult

By Eric Bogert, Aaron Schecter & Richard T. Watson, Nature, Scientific Reports, Apr 13, 2021

<https://www.nature.com/articles/s41598-021-87480-9>

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## **BELOW THE BOTTOM LINE**

#### **Global Warming Making It Too Hot To Run The Boston Marathon**

By Tony Heller, His Blog, Apr 16, 2021

<https://realclimatescience.com/2021/04/global-warming-making-it-too-hot-to-run-the-boston-marathon/>

*[SEPP Comment: Competitive runners have long said that the ideal conditions for a marathon are "50 -50 conditions: 50 degrees F and a 50-mph tail wind." Won't global warming increase the tail wind?]*

### **Claim: Global Warming is Causing Strawberries to Shrink**

By Eric Worrall, WUWT, Apr 15, 2021

<https://wattsupwiththat.com/2021/04/15/claim-global-warming-is-causing-strawberries-to-shrink/>

### **Contains 25% of your daily guilt**

By John Robson, Climate Discussion Nexus, Apr 14, 2021

<https://climatediscussionnexus.com/2021/04/14/contains-25-of-your-daily-guilt/>

*[SEPP Comment: Keep carbon out of carbohydrates!]*

### **Floating solar farms could cool down lakes threatened by climate change**

By Giles Exlery, Lancaster University, Via WUWT, Apr 14, 2021

<https://wattsupwiththat.com/2021/04/14/floating-solar-farms-could-cool-down-lakes-threatened-by-climate-change/>

The essay starts with: “Solar power is now the cheapest source of electricity in history, according to a 2020 report by the International Energy Agency.”

*[SEPP Comment: How much does a kilowatt hour of the “cheapest source of electricity in history” cost at midnight? Blocking sunlight to lakes will stop photosynthesis in the lakes, killing life!]*

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## **ARTICLES**

### **How a Physicist Became a Climate Truth Teller**

After a stint at the Obama Energy Department, Steven Koonin reclaims the science of a warming planet from the propaganda peddlers.

By Holman W. Jenkins, Jr., WSJ, Apr 16, 2021

[https://www.wsj.com/articles/how-a-physicist-became-a-climate-truth-teller-11618597216?mod=hp\\_opin\\_pos\\_2](https://www.wsj.com/articles/how-a-physicist-became-a-climate-truth-teller-11618597216?mod=hp_opin_pos_2)

Discussed in the “This Week” section above

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