

Talk to Sunset Rotary Club By Dick Storm

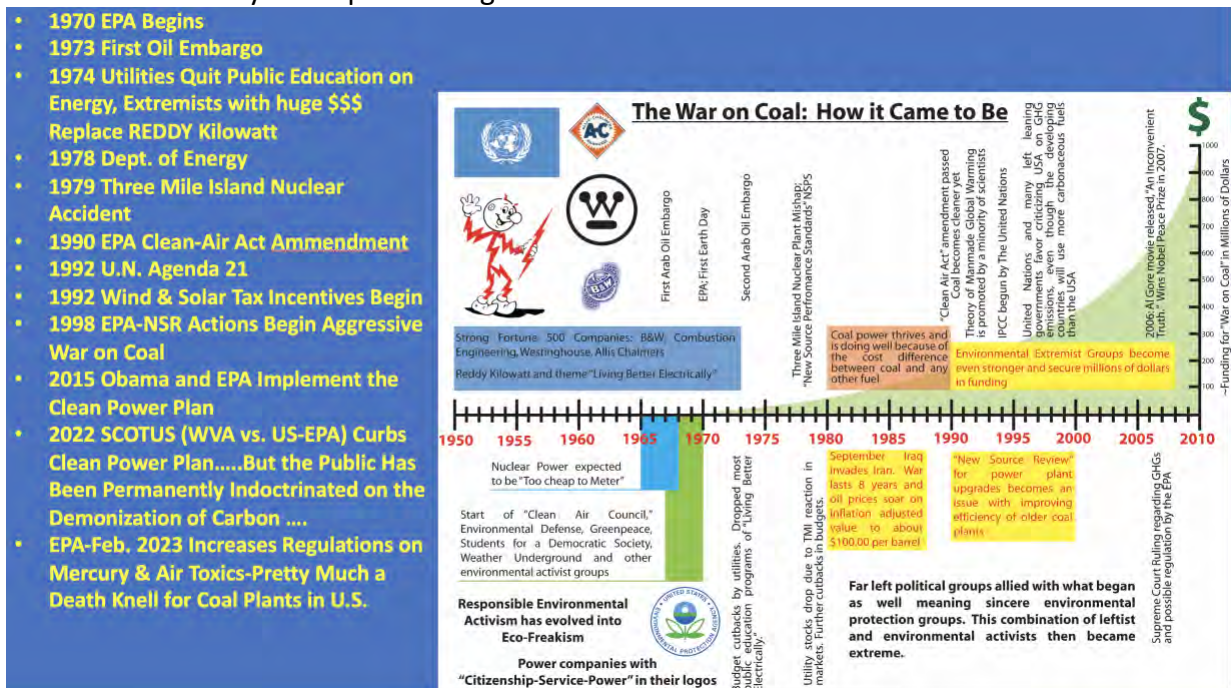
Green Rules and What steps do we need to take to get our energy back on track

Outline of Presentation:

1. How did “Green” Policies Come to Be?
2. What are the Green Rules that have been forced on the American people?
3. What are the Reality of the Green Rules, AKA “Inflation Reduction Act”
4. Will this Save the Planet?
5. Will the IRA Impact the way we live?
6. What can we do to get American Energy Policy Back on track?

1. How Did Green Policies Come to Be?

The worldwide movement of green policies began with the 1992 U.N. Conference in Rio de Janeiro. Out of the conference came the UN-Agenda 21. Buried within Agenda 21 is the intent to create “One World Government” that will control all of the people of the world and is based on Socialism. Environmental protection is a cover story for implementing Socialism within the western free world countries.



Then following Rio and especially during the Clinton administration, the environmental extremist groups ramped up their “war on coal” and found many allies within politicians. Many of the environmental extremist group leaders entered and left high level government positions through a Bureaucracy of “Revolving Door” positions in the EPA and other U.S. government agencies. Examples are Gina McCarthy who served as both EPA Administrator during Obama’s Presidency and as a highly paid official of the Natural Resources Defense Council “Action Fund” Another Joe Goffman currently at EPA^{14,16 & 17}. (references below). My Blog opinion and research of the top 16 Influencers of U.S. Energy Policy: <https://wp.me/p5DzAo-Ft>



The environmental movement could be described as a **“Seven Headed Monster”**. The seven heads are:

- The United Nations (UN-IPCC)
- The World Economic Forum and wealthy Billionaires
- Environmental NGO’s such as Sierra Club, NRDC, Environmental Defense Council and more
- The Democrat Party
- The Main Stream Media and Entertainment
- Indoctrination of the students (Wokeness) and the public through Public Education K-12 and including Colleges and Universities
- “Woke” Businesses and Industry that have moved toward embracing “Green Policies” for either consumer acceptance or to follow the money provided in government incentives.

The air in America is amongst the cleanest in the world. Everyone is in favor of clean air and clean water. However, after accomplishing great progress in removing true pollution, the Obama administration “Weaponized” the EPA to control carbon dioxide, which is not a pollutant. Obama also obligated U.S. auto industry to build Electric vehicles. The 2012 Whitehouse Press Release is below.

From my experience in industry and research as to why we have un-American “Climate Policies”, they are the result of political leaders and the U.N. corrupting science and formulating a path to one world government which began with the U.N. Agenda 21 in 1992. Here are a selection of books that support this claim:



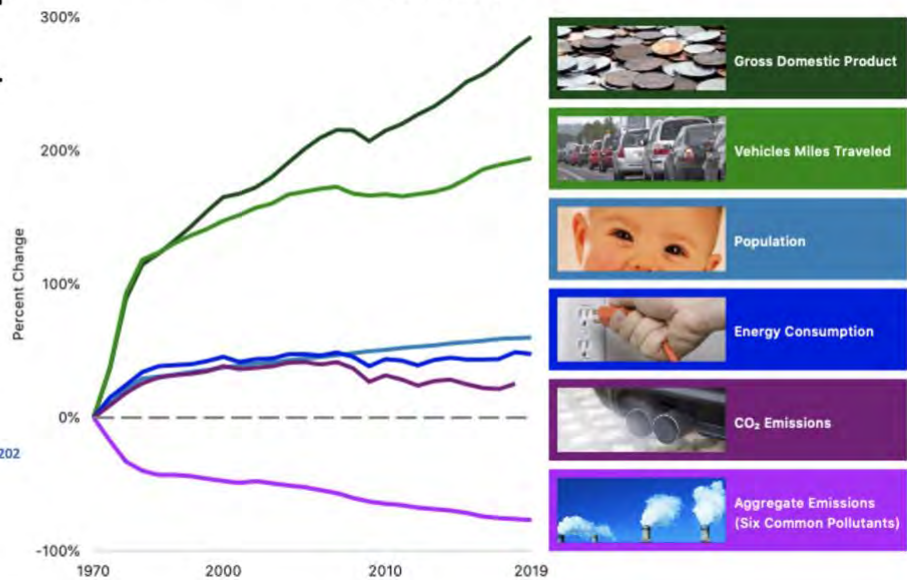
Reality of Success in Cleaning our Air EPA 50 Year Anniversary 1970-2020

The aggregate 6 Pollutants are:

- Carbon Monoxide (CO)
- Lead (Pb)
- Oxides of Nitrogen NO_x
- Ozone O₃
- Particulate Matter
- Oxides of Sulfur (S)

https://gispub.epa.gov/air/trendsreport/2020/#growth_w cleaner air

Comparison of Growth Areas and Declining Emissions
1970-2019



After years of indoctrination in August 2022 the “Green New Deal” was passed into law as part of the “Inflation Reduction Act”

This law now includes more than \$400 Billion dollars (Forbes stated \$589 Billion) as incentives for wind, solar and other carbon-free sources of energy.

Like it or not, the IRA is passed into law.

55 mpg Requirement of 2012 was a Stealth EV Mandate. It is Impossible to Enjoy Safe Vehicle Transportation with a fleet of 3,500 # Vehicles and Achieve 55 mpg Fuel Efficiency too. Industry & Government knew this in 2012. EPA ramped up to 55 in 2022

The White House
Office of the Press Secretary

For Immediate Release

August 28, 2012

Obama Administration Finalizes Historic 54.5 MPG Fuel Efficiency Standards



<https://www.wsj.com/articles/the-epas-mileage-standards-are-a-stealth-electric-vehicle-mandate-auto-industry-cars-regulation-11640726730>

The path to Net Zero Carbon is intended to eliminate the use of fossil fuels. Government continues to attack fossil fuels through nearly every Bureaucratic agency within the Federal government. It will be impossible to do so by 2050 and restricting conventional energy will cause serious consequences for our economic strength, personal wealth, National Security and our life-styles. Their stated plan is to “Electrify Everything”.



2022 TESLA CALIFORNIA EDITION

From Homes to Cars, It's Now Time to Electrify Everything

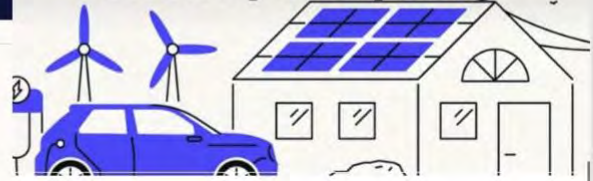
Electrify Everything to Cut Emissions, Save Money

Jun 13, 2022

From *The Jersey Sierran*, July - September 2022

BUILDING ELECTRIFICATION ISSUES REPORT
By

What does it mean to electrify everything?



The best U.S. example of the impact of the "Green New Deal" is Hawaii. Hawaii made wind and solar energy their priority several years ago and have shut down their one reliable, low cost coal plant. As a result of being an "Energy Island" with no connecting Grid, the true impact of the cost of green energy can be seen. The slide below was last year. The more recent comparison of S.C. and Hawaii electric rates is that Hawaii's are more than three times S.C.

Non-Dispatchable, Green Energy is More Expensive & Less Reliable Than Coal, Gas or Nuclear

Hawaii Has the Highest Cost Electricity in the U.S.A

S.C. Electricity Rates are about 1/3 those of Hawaii Thanks to Fuel Diversity

Connecticut	18.66
Delaware	10.52
District of Columbia	12.27
Florida	10.44
Georgia	9.86
Hawaii	28.72
Idaho	7.89
Illinois	9.56
Indiana	9.91
Iowa	9.08
Kansas	10.26
Kentucky	8.61
Louisiana	7.71
Maine	14.04
Maryland	11.24
Massachusetts	18.40
Michigan	11.56
North Carolina	9.45
North Dakota	8.85
Ohio	9.58
Oklahoma	7.86
Oregon	8.81
Pennsylvania	9.81
Rhode Island	18.49
South Carolina	10.02
South Dakota	9.98
Tennessee	9.69

Hawaii Electric Just shut down their only coal plant, which was the lowest cost electricity producer on the island. When they did, the power must be made up from Dispatchable Steam Units, powered by fuel oil. The fuel mix for Hawaii Electric is from the Blue Planet, "Island Pulse" website:

The reason the electricity production costs are so high with thought to be, the "Free Fuel" of wind and solar, is that when the wind stops and the sun sets, then power generation is done with backup Diesel generators. Fuel

is the largest cost of power generation, so when the primary fuel energy cost is very high, so is the electricity produced from it.

2. So, What is Government Approved Green Energy?

Essentially, the IRA finalizes the war on coal, oil and gas and is targeted toward the impossibility of **“Electrifying Everything”**. The government officials during Biden’s term have highlighted California and Hawaii as being “Models” for America. Both have very high cost electricity and California has experienced numerous Rolling Blackouts during peak Demand periods.

Speaking of California, the 100% Clean Renewable Energy Plan promoted by Stanford University’s Professor Mark Jacobson is shown below. Notice in his plan the absence of nuclear which is a huge mistake, in my view.

Mark Z. Jacobson

<https://online.stanford.edu/courses/cee176b-100-clean-renewable-energy-and-storage-everything>

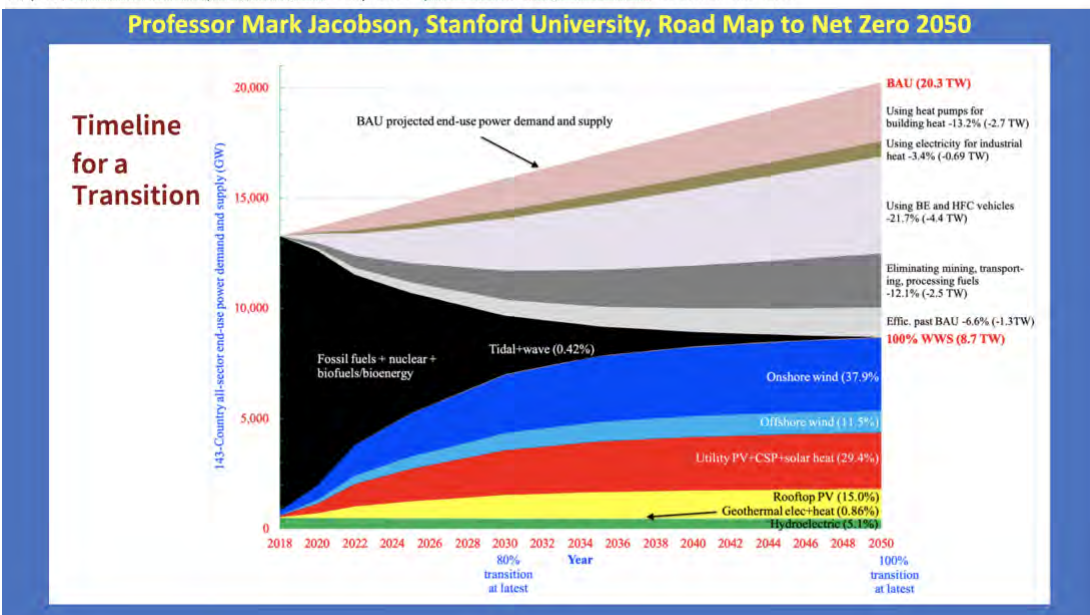
100%
CLEAN,
RENEWABLE
ENERGY AND
STORAGE FOR
EVERYTHING

University Professors at Stanford & Princeton as well as Other Respected Universities have Published Numerous Books and Plans to Transition to 100% Renewable Energy These are Clearly Smart People that Should Know Better



NET-ZERO AMERICA:
Potential Pathways,
Infrastructure, and Impacts

<https://netzeroamerica.princeton.edu/?explorer=year&state=national&table=2020&limit=200>



But.....not every use of conventional fuels can be substituted for with electricity. Such as Steel, Fertilizer, Plastics and Cement. The Net Zero Carbon path will destroy America if it is not stopped.

USES FOR OIL

Common Petroleum Products

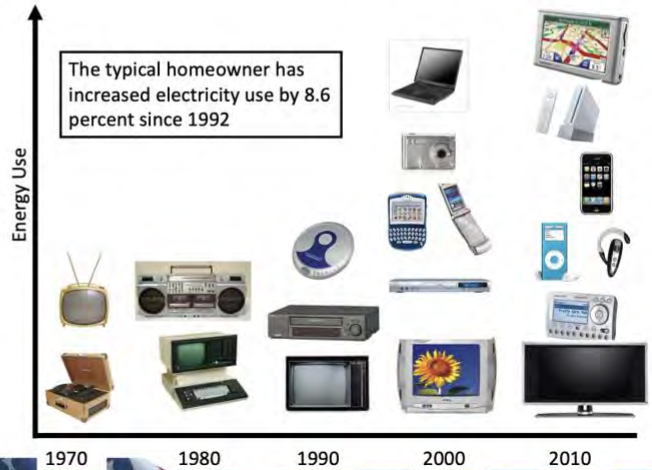


Petroleum Is Commonly Used To Make



**Energy Policy Impacts More Than Electricity
Over 87% of Our Energy Is Provided by Fossil and
Nuclear Fuels
The "Green Rules" Will Make Conventional Energy
More Expensive and/or Less Available**

Our List of Must-Haves Grows



Why Coal is Important for America 3

As you have read in the news or seen on TV, the major auto manufacturers are working toward phasing out vehicles powered by internal combustion engines. The fact of the matter is, EV's in the U.S. are a small fraction of the total 280 million vehicles on the road. According to Reuters about 1% and many of these are registered in California. Many citizens (including me) do not wish to buy an EV. Yet, the path forward being promoted by government policy is to literally outlaw internal combustion engines. (this started in 2012 with the stealth 54.5 mpg Rule)

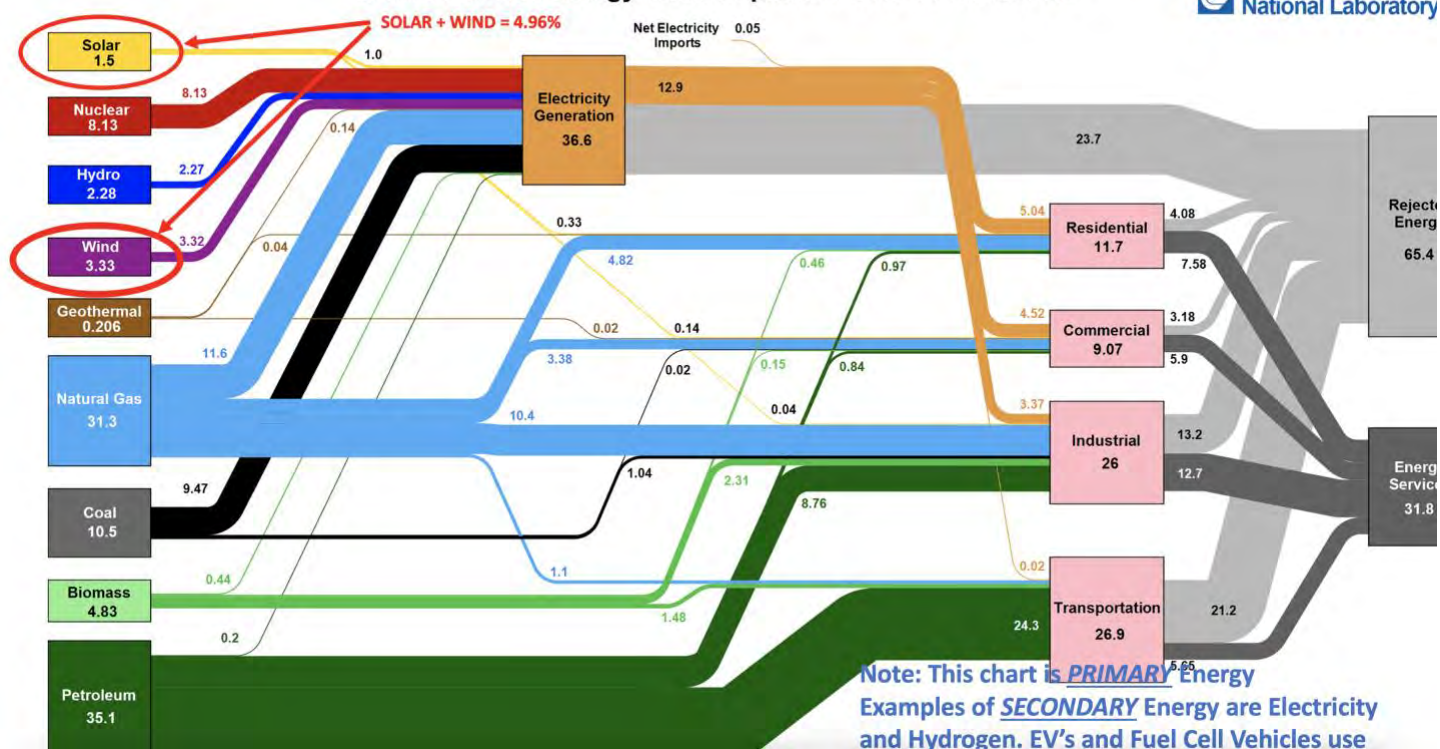
Electrifying everything is not feasible. In fact, it is impossible to electrify everything, yet that is what the government, MSM, WEF and many highly respected Universities are promoting to the public.

The government envisions total electric everything, including: Building heating, cooling, cooking, vehicle transportation, aircraft propulsion, steel making, industrial output etc. However, this is not possible. Consider for example cement, steel, plastic and fertilizer. **Four common materials that we cannot do without that in fact are impossible to be created from solar or wind power.**

The next illustration is the Lawrence Livermore National Laboratory "Sankey Diagram" which shows total PRIMARY ENERGY flows. The year 2021 was after recovery from Covid lockdowns and the total energy use was 97.3 Quadrillion Btus of energy. America has used right at 100 Quadrillion Btus per year for over 25 years. That is about 315 million Btus equivalent for every single person, on average in the U.S.. Now, take a look at the energy provided by wind and solar at 4.96%. This is after decades of subsidies to wind and solar. Still after all of these years the solar portion is less than 2% of our total energy.

Contrast this to the government mandated plan of Decarbonization and Net Zero Carbon by 2050. Electrifying automobiles, trucks, all cooking, heating etc will substitute the next largest total primary energy consumption with electricity. That means an enormous increase in electrical demand. I submit that we should look at the UK, Germany and Hawaii as examples of the results of depending too much on wind and solar.

Estimated U.S. Energy Consumption in 2021: 97.3 Quads



In short, the government policy of depending on wind and solar power is doomed for failure.

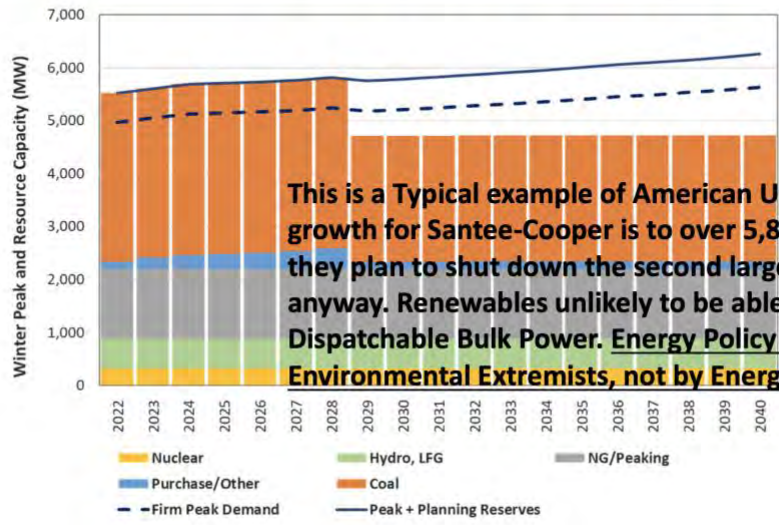
3. What is the Reality of the (so-called) Inflation Reduction Act?

Many electric utilities have planned to shut down more of the existing coal fleet and replace the electric generation capacity with solar and wind generation. Why? Because there are generous incentives to build new wind and solar and conversely, the EPA has ramped up additional air and water protection regulations on coal, oil and gas energy production. As the saying goes, "Follow the Money". Now it is incentivized for large Utilities and corporations to become involved with wind and solar power, whether they know it is the right choice or not. Take the example of the S.C. Public service Authority, better known as Santee-Cooper. Their forecasted electric generation is about 6,000 MW after about 2035. At one point they had new nuclear generation of 2,200 MW new capacity at the Summer Station Units 2 & 3. Also, they purchased major equipment for a 600 MW clean coal plant near Florence in 2009. All three of these units were cancelled. In my view due to three main reasons: 1. Outside Extremists Protests and government that gave in, 2. Mismanagement and 3. Excessive government Regulations. At any rate, the electricity demand is forecast to grow and the current likely new capacity additions will be solar and natural gas combined cycle plants. Santee-Cooper, like many Utilities across the U.S. is on a path set to appease the Environmental Extremists, not engineered growth, as once was the case.

Current Resource Planning Position Supply / Demand Balance



Following retirement of Winyah, 1,045 MW of capacity is needed by winter of 2029, increasing to over 1,500 MW by 2040



This is a Typical example of American Utilities. The projected load growth for Santee-Cooper is to over 5,800 MW by 2028. However, they plan to shut down the second largest coal plant in S.C. anyway. Renewables unlikely to be able to provide sufficient Dispatchable Bulk Power. Energy Policy is driven by Environmental Extremists, not by Energy Planning Engineers....

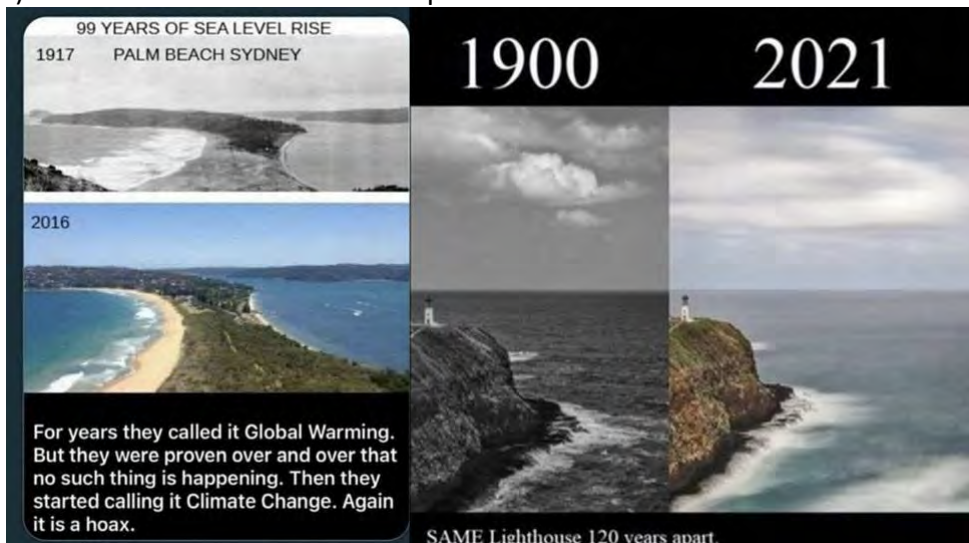
Santee Cooper 2023 IRP | Stakeholder Meeting #1 | March 1, 2022

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Remember the Keystone Pipeline? That was just the start of the Biden war on conventional energy. Every government agency has been weaponized to make it more difficult or more expensive to use fossil fuels. Not only the EPA but also the SEC with ESG policies (Environmental Social Governance) and DOJ "Social Justice" initiatives, the Department of energy, Bureau of Land Management and more.

4. Will "Green Energy" Save The Planet?

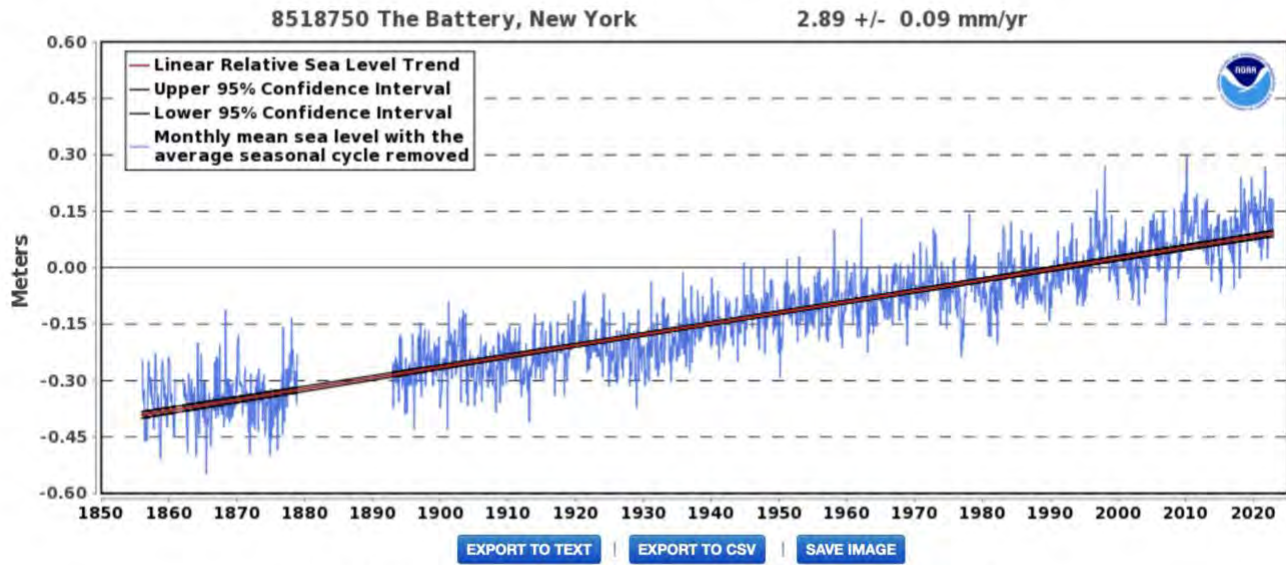
The indoctrination of politicians with "Green Policies" is worldwide. At least throughout the free western world. Europe and the U.S. are the strongest economies and through the auspices of the UN-IPCC and International pressure, have agreed to reduce carbon-based energy use within the U.S. and EU. The environmental extremists, WEF, wealthy Billionaires, Activist NGO's and Democrats have provided scare tactics to influence the general public. (Aka voters). Take sea level rise as an example:



For years they called it Global Warming. But they were proven over and over that no such thing is happening. Then they started calling it Climate Change. Again it is a hoax.

SAME Lighthouse 120 years apart.

Relative Sea Level Trend 8518750 The Battery, New York



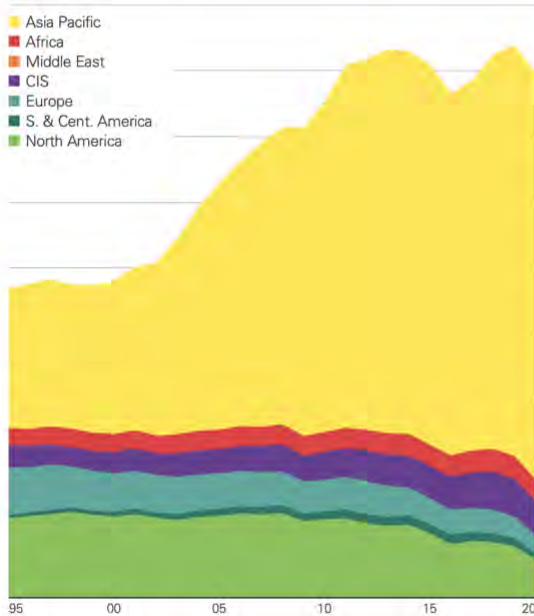
The relative sea level trend is 2.89 millimeters/year with a 95% confidence interval of +/- 0.09 mm/yr based on monthly mean sea level data from 1856 to 2021 which is equivalent to a change of 0.95 feet in 100 years.

Also, enormous sums of money have been made available for Developing countries to invest in “Green” energy power production. Will this reduce the CO₂ in the environment? No, because over 50% of the world’s carbon consumption is by China. China and Russia are not reducing their carbon production, in fact, they are increasing their use of carbon.

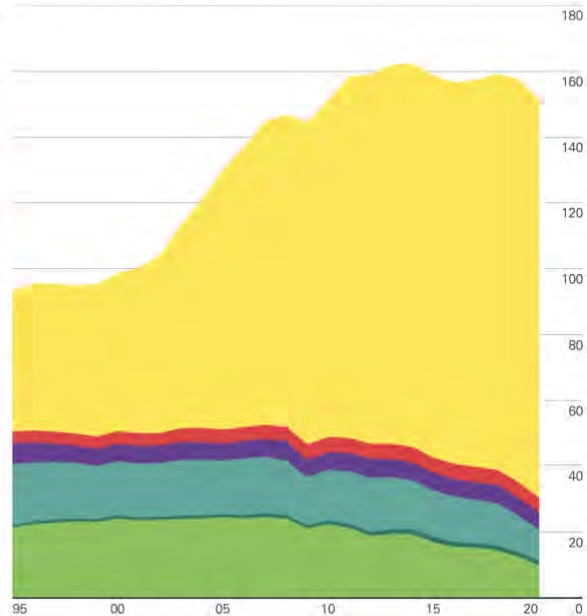
China Manufacturing: Powered Mostly by Coal

Coal: Production by region
Exajoules

- Asia Pacific
- Africa
- Middle East
- CIS
- Europe
- S. & Cent. America
- North America

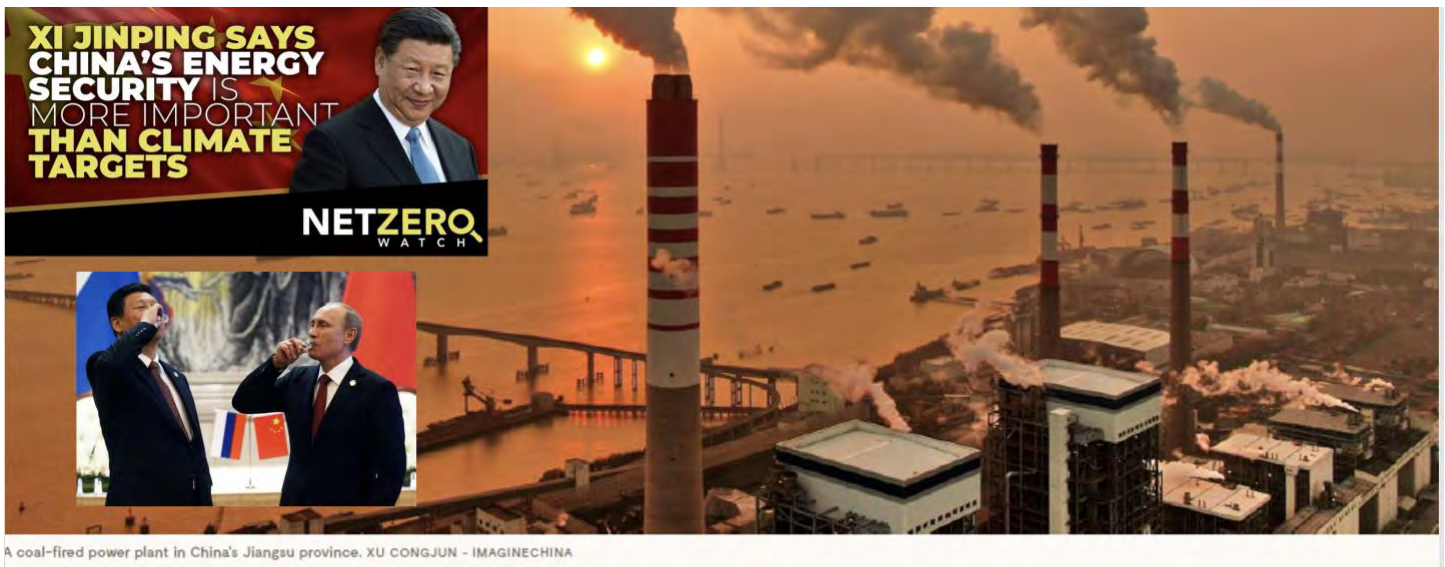


Coal: Consumption by region
Exajoules



World coal consumption fell by 4.2%, its fourth decline in six years. In the non-OECD, the only notable increases in consumption were in China (0.3%) and Malaysia (18.7%), while significant consumption declines were recorded for India (-6.0%) and Indonesia (-4.9%). OECD demand fell sharply, led by the US (-19.1%) and South Korea

China powers their manufacturing base mostly with coal power and China does use over 50% of the world’s coal. Russia of course, does little in manufacturing on a world scale, but they are one of the world’s largest



Despite Pledges to Cut Emissions, China Goes on a Coal Spree

energy producers and they export enormous quantities of oil and gas to China, India and other countries. In fact, up to recently, much of New England's gas came from Russia via LNG ships.

5. Will the IRA Impact the Way We Live? Our Quality of Life?

Green energy policies have been implemented by several countries in Europe and the overall cost and reliability of electrifying by use of wind and solar can be observed by actual experiences in Germany, the UK and Scandinavian countries. Also, Hawaii has implemented their state version of the "Green New Deal" several years ago. Hawaii has the highest cost electricity in the U.S.A. They even shut down their one coal fueled power plant last year. Why? Because they wanted carbon free energy. The Barbers Point coal plant was shut down. The power when not possible to be generated by wind and solar is fueled by Diesel fuel. The most expensive fuel of any available.

Will "Green Energy" change the quality of our lives. Yes, **if America changes to 100% wind and solar as advocated by many in government, it will weaken America and it will impact our freedom to travel, quality of life and it will restrict the ability of the next generation of Americans to live the American Dream as my generation has enjoyed.**

Energy is necessary for just about everything we touch or do. Energy = Life as we know it in America. Restricting energy use will harm our strength as a country and change the way we live. And not in a good way.

6. How Can We Get American Energy Back on Track?

This will be difficult. There is very little interest from the public and by our elected officials to create a "Rational Energy Policy". The last few Presidents that had rational energy policies were Carter, Reagan, Bush and Trump. The extremists have had control of the message to demonize conventional energy for over 40 years, almost 50 years. Two generations of public-school students. Ever since the Oil Embargoes of 1973-1980, protection of the environment has been #1 priority of public education/indoctrination.

Jimmy Carter was the 39th President of the United States (1977-1981) and was awarded the Nobel Peace Prize in 2002.

President Carter had numerous domestic and foreign policy accomplishments. He created the Department of Energy, established a National Energy Policy to deal with the energy shortage and decontrolled domestic petroleum prices to stimulate production. President Carter was the last President to become proactive in “National Energy Policy”.

To give the EPA credit, the air within the U.S. has in fact become some of the cleanest air in the world of industrialized nations. Since the air and water have been cleaned, the EPA has progressed beyond environmental protection and followed the extreme activism of NGO’s that hate industry and development of any kind.

The environmental extremists are enormously cash rich. They have been funded by tax sheltered wealth in Billions of dollars that they can and have used to fund politicians and legislation. A book correctly titled, “The New Leviathan” outlined the billions of dollars that Environmental Activist groups have acquired and grown. The leaders of some of these NGO’s enter and leave government positions through a revolving door. As a result, we have no energy policy. America’s only “Energy Policy” that was done in earnest to make sure America remained strong, was signed by President Carter in 1978. It was called the “National Energy Conservation Policy Act”. This action followed two oil embargoes and therefore, the importance of energy and petroleum was embedded into the people’s and elected government officials’ minds.

Since 1980 the only legislation that I am aware has been ramping up Regulations on power plant emissions. Essentially, a war on fossil fuels has been in place of ever greater intensity since the Bill Clinton administration and as mentioned above, beginning worldwide with the United Nations in about 1992.

Promoting a Rational Energy policy is important. As I see it, here is one approach to correction:

- a. **Education of the public** on the true facts
- b. **Education of elected officials** on the true facts of energy and electricity generation
- c. Write your elected officials to plead with them to learn the facts. **Educate Congress.**

If I were in charge, here is what I would do:

- A. First, roll back Roll back all Executive orders and Rules that have been implemented since January 20, 2021. The EPA, SEC, BLM, Dept. of Interior and other Regulations were implemented without approval of Congress.
- B. Secondly, Require all Regional Utilities to expand Dispatchable Generation so that each Regional Utility shall have at least 15% generation reserves for both winter and summer peak loads.
- C. Thirdly, create an engineered path to clean energy which includes All sources/forms of energy. Including nuclear, coal, natural gas, Biomass, wind and solar.

Thank you for your time and interest!

Yours very truly,

Richard (Dick) Storm, PE

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From “Utility Dive” Electric Utilities Publication:

IRA ‘turbocharging’ of clean energy tax credits could boost NextEra, AES, other renewable developers: S&P

Dive Brief:

- The Inflation Reduction Act’s “turbocharging” of clean energy tax credits could boost renewable energy developers like NextEra Energy Partners and AES while helping traditionally fossil-oriented power companies such as Vistra pivot towards solar and energy storage, according to S&P Global Ratings.
- Renewable energy developers like Brookfield Renewable Partners, Clearway Energy and Pattern Energy Group could also benefit by providing electricity to make green hydrogen, S&P analysts said in a Sept. 8 report, adding that nuclear power plants owned by Constellation Energy Generation, Energy Harbor, NRG Energy and other companies could also be used to produce green hydrogen.
- The law will also facilitate the move away from fossil fuels, the report said. “We think the legislation might pave the way for firm power by making renewable generation more reliable through co-located battery storage, and also by making green hydrogen economical about 10 years earlier than anticipated,” the S&P analysts said.

Dive Insight:

The IRA, which became law last month, could be a “gamechanger” for the power sector, driven by long-term production and investment tax credits, S&P analysts said.

“A key aspect to the Act is the technology neutral standpoint, which allows for certain regions to take advantage of renewable technology that best suits its needs and capabilities, as well as leaving room for new technology as developed,” the analysts said.

The investment tax credit for onshore wind and solar starts at 30%, but if certain criteria are met, it could be as high as 70% for projects under 5 MW and 50% for larger projects, according to the report.

“We think renewables will become even more cost competitive, accelerating the proliferation of installations,” the analysts said. “Both [NextEra Energy Partners] and AES have strong incumbent positions and are high-growth, innovative participants.”

A package of clean hydrogen tax incentives may be the IRA’s most significant provision, according to the analysts. Under the law, low-carbon hydrogen production facilities can take advantage of a production tax credit for the first 10 years the facility is operating, they noted.

“We think it accelerates the economics of hydrogen a decade ahead, which will both compete with, and complement, batteries,” the analysts said.

The law provides major support for merchant nuclear power plants, according to the report.

“It was only three years ago that nuclear plants were economically beleaguered and retirements were being announced,” the S&P analysts said. “The PTCs change the model for unregulated nuclear power generators from a merchant business to a nine-year contracted business, with floor pricing of \$40/MWh to \$44/MWh.”

In part, the IRA will help foster the shift away from large, fossil-fueled power plants by making it easier to provide firm power from intermittent resources like wind and solar, according to the report.

“We think sometime soon, technology will get to a point where delivered power is entirely clean, firm, and cheap. But the electric grid is still transitioning, and it’s not quite there yet,” the S&P analysts said. “Among clean, firm, and cheap power, it appears that right now the choice is any two.”