

Addenda #47 Update – January 2025

Re: Ch. 8, 2050 Net-Zero Emissions; Impossible!

SDG 7 – Ensure access to affordable, reliable, sustainable and modern energy for all

In Addenda 47, dated June 2024, I detailed the coming demand for electricity to power new manufacturing facilities and data centers. This is a demand that is in addition to the requirements dictated by the Presidents and state governors' *electrification* mandates. I cited multiple opinions that we would soon be running out of the ability to provide both the additional electricity from existing and planned power sources, and the transmission lines it will take to carry these new loads to these facilities. The idea of running short of, or out of power, paints a dire situation for utilities and their customers.

One of the sources I frequently use for information on the utility sector is the website *Utility Dive*. As a former electrician who is very interested in the topic of electrification and its effects on our nation's electrical grid, I subscribe to their newsletter and receive frequent emails when new articles and research is posted on their website. Utility Dive has been covering the topic of grid stability for a couple of years now, with each new article painting a more disturbing picture of the demand for electricity increasing far beyond the ability to bring new sources of power online.

The most recent article I received from Utility Dive is titled: *Explosive' demand growth puts more than half of North America at risk of blackouts: NERC* ^[1]

The article links to a December 2024 report published by the North American Electric Reliability Corporation (NERC) titled *2024 Long-Term Reliability Assessment*. The Executive Summary of the report confirms all the information I have been reading about the deterioration of electric grid reliability, due to the continued closures of fossil fuel generation plants in the pursuit of reducing greenhouse gas emissions. ^[2]

In the 2024 LTRA, NERC finds that most of the North American BPS [bulk power systems] faces mounting resource adequacy challenges over the next 10 years as surging demand growth continues and thermal generators announce plans for retirement. New solar PV, battery, and hybrid resources continue to flood interconnection queues, but completion rates are lagging behind the need for new generation. Furthermore, the performance of these replacement resources is more variable and weather-dependent than the generators they are replacing. As a result, less overall capacity (dispatchable capacity in particular) is being added to the system than what was projected and needed to meet future demand. The trends point to critical reliability challenges facing the industry: satisfying escalating energy growth, managing generator retirements, and accelerating resource and transmission development.

The NERC reinforces the **fact** that renewable sources of power generation; wind, solar and hydroelectric, are “weather dependent” and therefore are not reliable sources of electricity. Since the “peak” of fossil fuel power generation in the U.S., coal and petroleum-fired power

generation has decreased by 67%, for a loss of 1,448 billion kilowatt-hours (KWh) of electricity generated. Nuclear powered generation has decreased by another 7 billion KWh, as “Blue state” governors and environmentalists waged war on the nuclear industry as well. Renewable power sources, wind, solar and hydro have only added 536 billion KWh of “weather-dependent” electricity, one-third of the capacity that has been decommissioned. The only way that the U.S. has been able to keep up with demand to this point, has been through the growth of natural gas fired power plants. But this advantage is coming to an end with the explosive growth of AI data centers and Climate Policy mandates.

The NERC report says its summer electricity demand forecast is more than 50% higher than one year ago. NERC sees summer demand rising by almost 16% over the next decade and winter demand rising almost 18%. Anticipated “reserve margins”, the safety net of additional supply during extreme weather conditions, are expected to continue to decline as coal, petroleum and natural gas fired power plants continue to close.

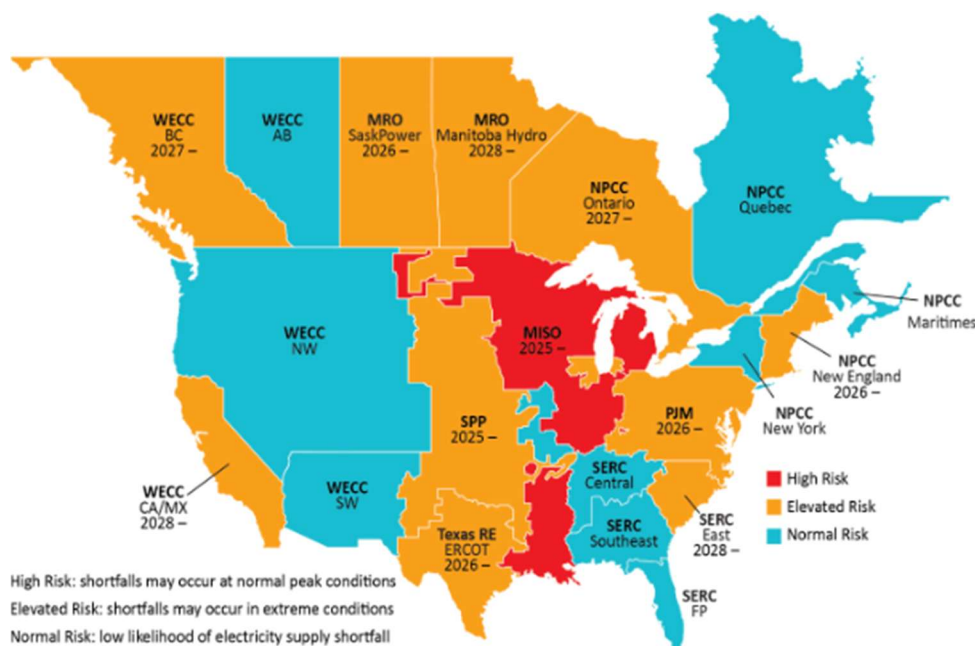


Figure 1: Risk Area Summary 2025–2029

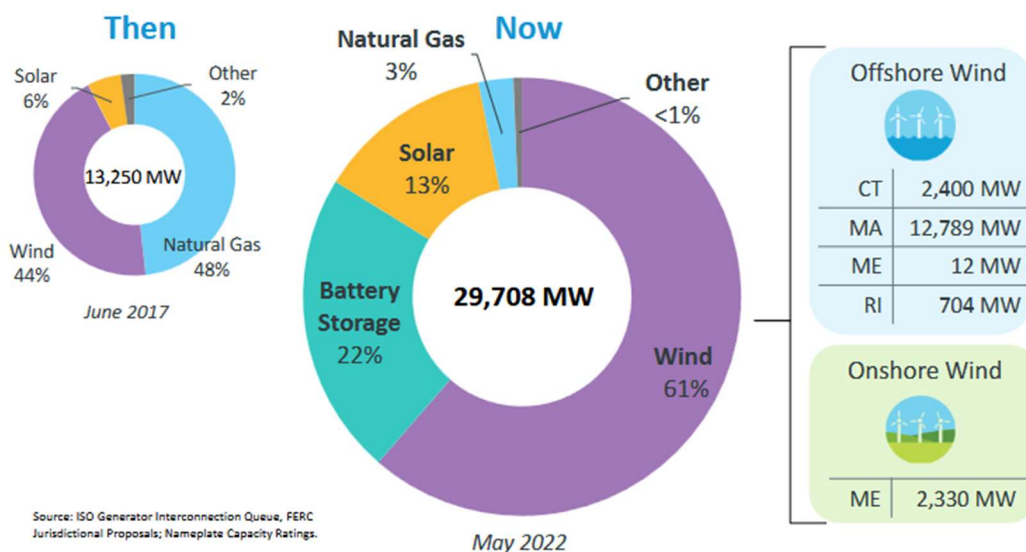
Almost one-half of the U.S. is at “Elevated Risk” from 2025 on, meaning that there would be electricity shortages, leading to mandatory electricity conservation measures and potential rolling blackouts, under “extreme” summer weather conditions. The Midcontinent Independent System Operator (MISO), which operates the electric grid serving more than 42 million customers in 15-states, is at “High Risk” for disruptions in service from 2025 on, even at normal peak summer and winter conditions as “resource additions are not keeping up with generator retirements and demand growth”.

In New England, the NERC report states: “Strong demand growth and persistent winter natural gas infrastructure limitations pose risks of supply shortfalls in extreme winter conditions.” Five New England states; Massachusetts, Maine, Connecticut, Vermont, and

Rhode Island mandate an 80% reduction in greenhouse Gas emissions by 2050. The states also have carbon-neutral, net-zero or clean energy requirements to be achieved between 2033 and 2050. ISO New England released their New England Power Grid 2023-2024 Profile report in April 2024, titled *A Major Energy Transformation Is Underway*.^[3] The report details the change in electricity production from 2000 to 2023. In 2000, electricity generation was 31% nuclear, 22% fuel oil, 18% coal, 15% natural gas, 7% hydro and 8% renewables. In 2023, electricity generation was 20% nuclear, 0.3% fuel oil, 0.2% coal, 49% natural gas, 8% hydro and 10% renewables. The New England ISO also has to import 13% of the electricity it uses from Hydro Quebec because it can't produce enough on its own. Notice that the amount of electricity consumed from natural gas generation has increased from 15% to 49% in the past 23 years.

The ISO Generator Interconnection Queue Provides Snapshots of the Future Resource Mix

Dramatic shift in types of proposed resources from natural gas to wind



Looking to the future, the proposed ISO electricity generation ratio changes drastically in order to meet emissions and clean energy mandates. By 2050, the generation mix allegedly will shift to 96% renewables, 3% natural gas and 1% hydro. The remaining two nuclear power plants and all gas-fired plants will be closed to meet the mandates.

The charts also show the effects of electrification over the next three decades. With demand increasing 124% due to the transition from gas powered vehicles to electric (year-round charging required) and natural gas heating to electric. These transitions mean that the New England grid will shift from “summer-peaking” to “winter-peaking”. Without natural gas as a reliable winter heating fuel, the grid will depend on wind and solar to ensure residents and businesses will have heat and lights during the winter.

Although new wind and solar generation projects are being announced regularly, they require upgrades to the existing electric grid system in order to bring that power to utility customers. The report notes that although transmission system projects are increasing... “development continues to be affected by siting and permitting challenges.” In the meantime, natural gas will continue to play a big part in both electricity generation and residential and business winter heating. But another report issued by NERC notes that even the natural gas supply in New England and New York state poses “severe threats to reliability”, due to a lack of pipeline capacity to carry the increased winter demand. ^[4]

A lack of spare pipeline capacity in New York and New England poses “severe threats to reliability” during periods of extreme cold weather, the North American Electric Reliability Corp. said Tuesday, responding to a study of the region’s gas and power systems.

The Northeast Power Coordinating Council’s report showed New York and New England natural gas infrastructure “fully utilized” during modeled extreme cold weather periods. NPCC is one of NERC’s six reliability entities.

The assessment found that most gas-fired generators operating in the region “do not hold firm transportation entitlements” which “can expose those generators to gas supply curtailment or interruption when pipeline congestion materializes during the peak heating season,”

The tunnel vision of New England states and New York state politicians, focused solely on carbon-neutral, net-zero and clean energy requirements is putting 35 million residents of these states at risk during the worst possible times of the year, when natural gas is required to produce not only electricity but to fuel gas furnaces and boilers for heat, as temperatures plummet to as much as -39 °F. But none of this matters, only meeting emissions and renewable goals matters.

NERC warns that the situation is becoming more urgent as demand forecasts surge and resource additions slow and winter seasons are now as critical as summer seasons due to the continued supply issues, electrification mandates and AI data centers.

The “explosive” demand growth of electricity is being driven by new data centers, building and transportation electrification and other large commercial and industrial loads, such as new manufacturing facilities and hydrogen fuel plants.

Ref: Addendum #47 – June 2024, updated September 2024

Electricity peak demand and energy growth forecasts over the 10-year assessment period continue to climb higher than at any point in the past two decades. The aggregated assessment area summer peak demand forecast is expected to rise by over 132 GW, and aggregated winter peak demand forecasts are increasing by 149 GW.

Electrification of household appliances (e.g., heat pumps for household heating) and projections for electric vehicle growth over this assessment period are components of the demand and energy estimates provided by each assessment area... Rising peak demand forecasts are contributing to the lower reserve margins projected for nearly all assessment areas.

Increasing amounts of large commercial and industrial loads are connecting rapidly to the BPS.

Emerging large loads, such as data centers (including crypto and AI) and hydrogen fuel plants, present unique challenges to forecasting and planning for increased demand. Earlier this year, NERC's RSTC established a Large Loads and develop solutions.

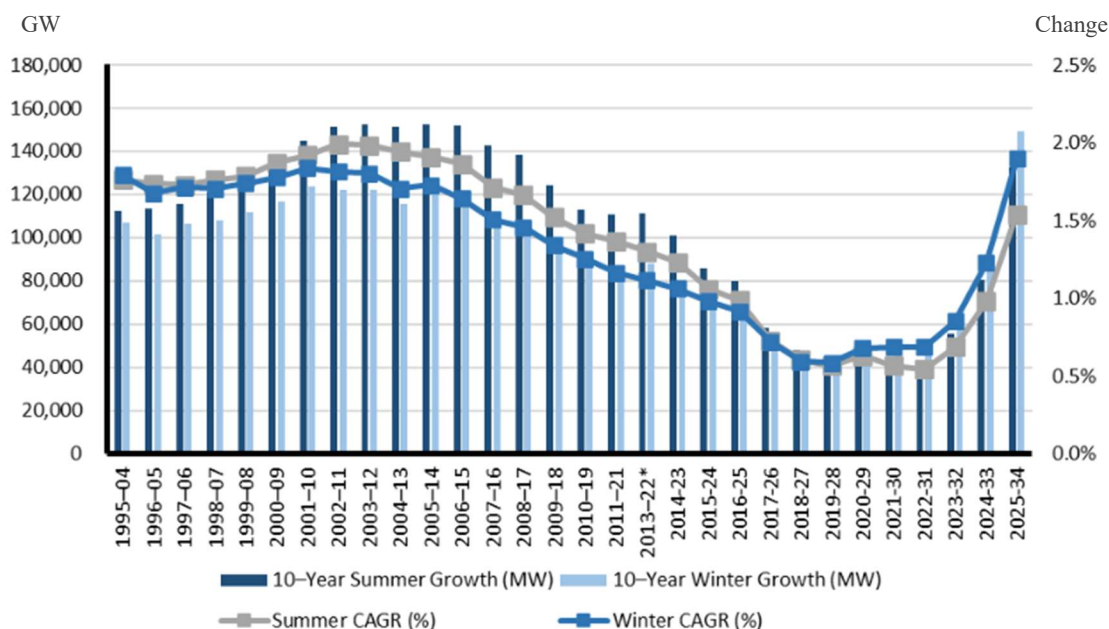


Figure 17: 10-Year Summer and Winter Peak Demand Growth and Rate Trends

After steadily decreasing over the past two decades due to changes in building codes requiring higher levels of energy efficiency and innovations in electric motors, electric lighting and controls, electricity demand is projected to increase sharply to account for electrification, industrial loads and commercial data centers. It is predicted that by 2030, data centers will consume 8% of all electricity generated in the United States, as data centers will continue to be built to support increased use of Artificial Intelligence. [5]

A collaboration between technology companies Arm, Microsoft, NVIDIA, Oracle, and OpenAI, named “The Stargate Project”, plans to invest \$500 billion to build data centers in Texas and other sites across the country. Texas’ main grid operator, ERCOT, predicts power demand will nearly double by 2030, in part due to more requests to plug into the grid from large users like data centers, crypto mining facilities, hydrogen production plants and oil and gas companies. [6] This could pose significant problems for the state, as ERCOT is an independent electrical grid, with no connections to adjoining states and no ability to import electricity.

Increased electric loads in Texas and other states will require new solutions, thinking “outside the box” if the demand is to be met. Renewable power sources are not reliable and are not being built at the rate required to replace fossil fuel plant retirements and increased demand. Politicians who continue to insist on renewables as *the* answer are only setting their constituents up for failure of the electrical grid when power is needed the most.

A Clear and Present Danger – Threat #2: U.N. Agenda 21 / 2030

Table 1: Capacity and Energy Risk Assessment Area Summary

Risk Level	Years	Risk Summary
High	2025 -	Resource additions are not keeping up with generator retirements and demand growth. Reserve margins fall below Reference Margin Levels (RML) in winter and summer.
Elevated	2028 -	Potential resource shortfalls in low-hydro conditions, driven by rising demand.
Elevated	2026 -	Risk of insufficient generation during fall and spring when more generators are off-line for maintenance.
Elevated	2025 -	Potential energy shortfalls during peak summer and winter conditions arise from low wind conditions and natural gas fuel risk.
Elevated	2026 -	Strong demand growth and persistent winter natural gas infrastructure limitations pose risks of supply shortfalls in extreme winter conditions.
Elevated	2027 -	Reserve margins fall below RMLs as nuclear units undergo refurbishment and some current resource contracts expire. Demand growth is also adding to resource procurement needs.
Elevated	2026 -	Resource additions are not keeping up with generator retirements and demand growth. Winter seasons replace summer as the higher-risk periods due to generator performance and fuel supply issues.
Elevated	2028 -	Demand growth and planned generator retirements contribute to growing energy risks. Load is at risk in extreme winter conditions that cause demand to soar while supplies are threatened by generator performance, fuel issues, and inability to obtain emergency transfers.
Elevated	2026 -	Surging load growth is driving resource adequacy concerns as the share of dispatchable resources in the mix struggles to keep pace. Extreme winter weather has the potential to cause the most severe load-loss events.
Elevated	2028 -	Demand growth and planned generator retirements can result in supply shortfalls during wide-area heat events that limit the supply of energy available for import.
Elevated	2027 -	Drought and extreme cold temperatures in winter can result in periods of insufficient operating reserves when neighboring areas are unable to provide excess energy.

Source: 2024 Long-Term Reliability Assessment - December 2024; North American Reliability Corporation

1. 'Explosive' demand growth puts more than half of North America at risk of blackouts: NERC; Utility Dive, December 16, 2024
<https://www.utilitydive.com/news/explosive-demand-growth-blackouts-NERC-LTRA-reliability/735866/>
2. 2024 Long-Term Reliability Assessment - December 2024; North American Reliability Corporation, December 10, 2024
https://www.nerc.com/pa/RAPA/ra/Reliability%20Assessments%20DL/NERC_Long%20Term%20Reliability%20Assessment_2024.pdf
3. New England Power Grid State Profiles 2023-2024; ISO New England, April 2024
<https://www.iso-ne.com/static-assets/documents/100010/new-england-power-grid-state-profiles.pdf>
4. Lack of Northeast gas pipeline capacity poses 'severe threats to reliability' in cold weather: NERC; Utility Dive, January 23, 2025
<https://www.utilitydive.com/news/northeast-gas-pipeline-capacity-reliability-NERC-NPCC/738100/>
5. AI is poised to drive 160% increase in data center power demand; Goldman Sachs report, May 14, 2024
<https://www.goldmansachs.com/insights/articles/AI-poised-to-drive-160-increase-in-power-demand>
6. Texas electricity demand could nearly double in six years, grid operator predicts; The Texas Tribune, June 20, 2024
<https://www.texastribune.org/2024/06/20/texas-electricity-demand-forecast-ercot/>

Addenda #72 – January 2025

Re: Ch. 17, S.D.G. Enforcement by Global Organizations

SDG 10.7 – U.N. Migration Policies

Ref: Addenda #46 – May 2024

Ref: Addenda #65 – October 2024; Updates November 2024 & December 2024

At 12:00 PM on January 20, Donald Trump was sworn in as the 47th President of the United States. In his inaugural address, he stated: “Our sovereignty will be reclaimed. Our safety will be restored... First, I will declare a national emergency at our southern border. All illegal entry will immediately be halted, and we will begin the process of returning millions and millions of criminal aliens back to the places from which they came.”

On his first day in office, President Trump signed twenty-six executive orders [and actions](#), several of which were signed at the Capital One Arena following his inauguration, in front of thousands of his supporters.

The first Executive Order he signed revoked approximately 80 executive actions that had been signed by former President Joe Biden. These included Executive Order 14010, dated February 2, 2021, which created a process to “managing migration throughout North and Central America.” This order aligned with the United Nations *Global Compact for Safe, Orderly, and Regular Migration in Latin America and the Caribbean*. This executive order signed by President Biden two weeks after his inauguration, bypassed the Immigration and Naturalization Act to allow unregulated illegal immigration into the U.S.

(Ref: A Clear and Present Danger, Threat #2 – U.N. Agenda 21 / 2030, Addenda #46-May 2024)

On January 22, President Trump's third day in office, he signed an executive order invoking the National Emergencies Act, declaring that a national emergency exists at the southern border. This order directed the Secretary of Defense and the Secretary of Homeland Security to take any and all measures necessary to control the border, including the use of U.S. military troops and National Guard. The President also authorized his “border czar, former acting head of Immigration and Customs Enforcement (ICE), Tom Homan, to begin rounding up and deporting illegal immigrants with criminal records.

On the morning of January 23, sixty-eight hours after Donald Trump was sworn in and less than twenty-four hours after declaring a national emergency, Immigration and Customs Enforcement (ICE) in Boston began arresting criminal illegal immigrants. Eight illegal immigrants with criminal records were arrested that day. They included members of the Salvadoran transnational criminal gang MS-13 and criminal illegals that have outstanding Interpol international Red Notices out for their arrest. These arrests included at least two illegal immigrants who were released from custody previously under sanctuary policies, including one MS-13 gang member released the previous day, despite a detainer request being issued by ICE to law enforcement. One additional arrest made by ICE that day, was an “illegally present” 25-year old Haitian national who has been arrested, charged and convicted for 17 crimes in Massachusetts between Aug. 16, 2022, and Aug. 14, 2024,

including both possession of and possession to distribute controlled substances, distribution of controlled substances, trespassing, carrying a dangerous weapon, possession of a firearm without a permit and possession of ammunition without a permit, assault and battery with a dangerous weapon, assault and battery, and resisting arrest. Officials say Wisteguens Jean Quely Charles, a member of a violent Haitian street gang, was released from jail following one of his arrests, ignoring a detainer filed by ICE.

“Mr. Charles is illegally present in the United States and has consistently broken our laws causing significant harm to the residents of Massachusetts,” said acting Field Office Director Patricia H. Hyde. “ERO Boston will not tolerate the repeated victimization of our New England neighborhoods. We will continue our mission to apprehend such illegal alien offenders and remove them from our communities.”

ICE Enforcement and Removal Operations Boston statement, January 24, 2025



Wisteguens Jean Quely Charles

*“I’m not going back to Haiti. F*** Trump, you feel me? Biden forever!”*

Additional enforcement actions were taken across the country in following days.

ICE Boston arrests Honduran illegal alien charged with sex crimes, assault and battery, armed robbery

ICE ERO Boston, MA, January 28, 2025

BOSTON — U.S. Immigration and Customs Enforcement Boston apprehended an illegally present, previously removed Honduran when officers with ICE Enforcement and Removal Operations Boston apprehended Juan Alberto Rodezno-Marin in Boston Jan. 22. Rodezno, 39, was charged in Massachusetts with indecent assault and battery on person over 14, assault and battery with a dangerous weapon, masked armed robbery and assault to rape.

Although Massachusetts governor Maura Healey said she supports the apprehension of criminals, state Attorney General Andrea Joy Campbell declared state and local law enforcement “cannot be commandeered for federal immigration enforcement” and issued guidance to schools on how to handle the new “immigration policies.” If ICE agents attempt to remove a student from a classroom, schools must see written consent from a parent or guardian or a valid federal or state warrant.

Boston Mayor Michelle Wu claims her city does not have an illegal immigrant crime problem. “Our police department takes care of criminal activity and they focus on local issues,” Wu said Tuesday. “Whenever someone breaks the law, we hold them accountable here regardless of their immigration status, which we do not ask about.”

Apparently Wu does not consider Wisteguens Jean Quely Charles or Juan Alberto Rodezno-Marin to be a “problem” for her city even though that is where ICE apprehended them.

ICE ERO Baltimore arrests Salvadoran gang member with weapons charges

ICE ERO Baltimore, MD, January 28, 2025

Ref: Update: Addenda #65 – November 2024

BALTIMORE — U.S. Immigration and Customs Enforcement apprehended a 19-year-old Salvadoran national and member of the MS-13 foreign terrorist organization. ICE officers from Enforcement and Removal Operations Baltimore arrested Anderson Geovany Romero in Hyattsville, Maryland, Jan. 25. This undocumented alien was apprehended after the Prince George's Detention Center failed to honor an immigration detainer and released him from custody. Romero has pending criminal charges for possessing a loaded handgun and ammunition.

ERO Houston repatriates accused child rapist to Mexico who has illegally entered US 4 times

ICE ERO Houston, TX, January 23, 2025

HOUSTON — U.S. Immigration and Customs Enforcement's Enforcement and Removal Operations Houston, with assistance from ERO Mexico and the Security Alliance for Fugitive Enforcement Task Force, repatriated Nestor Flores Encarnacion, a 58-year-old undocumented alien, to his home country of Mexico Jan. 23. Flores has illegally entered the U.S. four times and is wanted in Veracruz, Mexico, for rape of a child.

ICE makes arrests in Chicago, suburbs as part of nationwide immigration raids

abc 7, Chicago, IL, January 27, 2025

U.S. Immigration and Customs Enforcement said 1,179 people were arrested in operations nationwide just Monday. ICE said the agency made 956 arrests Sunday.

It's unclear how many of those arrests were made in the Chicago area, but ICE confirmed that they have begun what they are calling "targeted operations" in Chicago.

Illinois Attorney General Kwame Raoul appeared on "CNN This Morning" after ICE began carrying out operations in Chicago and the suburbs, saying: "I think this is going to have an upsetting effect on our economy and stability in our community," Raoul said. "These are people who make contributions and pay taxes and are part of the fabric of our community here in Chicago and throughout the nation."

The following day, Chicago mayor Brandon Johnson acknowledged that at least 100 people had been arrested in Chicago since ICE began its operations there. "Regardless of who is in the White House, Chicago is a city that opens its arms to people from around the globe,"

Mayor Johnson said. "We will continue to protect civil and human rights, and we welcome all individuals and families who want to work, live and thrive here in our beloved city."

Chicago residents have a different opinion over Brandons handling of the illegal immigrant crisis in their city. In the midst of a \$1 billion budget shortfall, Johnson's administration has spent almost \$575,000 on sheltering illegals, resulting in cuts to services for legal residents of the city and increased crime.

On January 28, ICE ERO agents carried out immigration arrests in New York City. Twelve illegal immigrants with criminal records were taken into custody, one of which was a member of the violent Venezuelan gang, Tren de Aragua. Anderson Zambrano-Pacheco, 26, was arrested for possession of a firearm and ammunition while being a fugitive. He was wanted on an Aurora Colorado Police Department warrant for first-degree burglary and menacing with a firearm, from the violent kidnapping and beating of two victims at the

Whispering Pines apartment complex, which had been taken by Tren de Aragua gang members in June 2024. Police did nothing to remove gang members from the complex or protect residents. When the story became national news in September, Aurora mayor Michael Coffman (Rep.) downplayed complaints, claiming that his town was not “overrun” and gang members were not in control of the complex. The one member of the City Council that publicized the story and officials lack of action, was described in the media as a “far-right council member.”

After the New York City raid, DEA Special Agent Frank Tarentino said: "This is the DEA working with federal partners from DHS, specifically from HSI, ICE and ERO on those very specific violent criminal aliens who are causing the most harm, who are responsible for the death destruction that is playing out across America." The New York Civil Liberties Union had a slightly different opinion however: "Rounding up people en masse like this is cruel, dehumanizing, and ignorant of due process - something every single person in the U.S. is entitled to, no matter their immigration status."

ICE enforcement raids have been compared by the left to Gestapo roundups of Jews during the 1940's. MSNBC *Morning Joe* guest Anand Giridharadas claimed that “having gestapo raids in America” is just a distraction for his [Trump's] supporters, while he “enriches his billionaire cronies, enriches his oligarch friends.” Liberal city residents also protested the ICE arrests. “No one sits outside... It's such a difference since Trump took office, everybody's scared” said long-time resident Yudelka Romano.

New York Attorney General Letitia James, who's 2018 election campaign pledge was to investigate then President Trump, his businesses and family members, said in response to the raids: "My office is aware of the increased presence of ICE across New York City. I am monitoring the situation to ensure our laws are being respected and people's rights are not being violated," What about the rights of legal New York citizens who have been victims of crime perpetrated by illegal criminal migrants or who have services cut due to the governments shift to caring for illegal immigrants instead of legal residents?

As of January 28, ICE and its partner agencies have made over 4,500 arrests and lodged over 3,500 detainees on immigrants they say are in the country illegally. “Border czar” Tom Homan said ICE is prioritizing criminals in the early going, but that anyone who has entered the U.S. without authorization could be taken into custody and sent out of the country. Homan told ABC News that there have already been “collateral arrests” in sanctuary cities during operations focused on rounding up criminals. "It was a great start, but there's much more to come. Border agents are recording drastically low numbers of illegal crossings in the week since Donald Trump took office. In the final week that Joe Biden was president, there were 20,086 encounters at the southern border, an average of 2,869 per day. From January 20 to January 26, there were 7,287 migrant encounters at the southern border, an average of 1,041 per day. That equals more than a 63% decrease in the number of encounters at the southern border and none of them are being released into the United States to wait for immigration court hearings.

Finally, there is action being taken against illegal immigrants with criminal convictions who are living among us. Remember the statistics ICE Deputy Director Patrick Lechleitner provided to Congress in September 2024. (See: Update: Addenda #65 – November 2024)

- * There are more than 7.5 million illegal immigrants in the United States, waiting for future immigration hearings to decide if they will be allowed to stay in this country.
- * 662,566 have criminal histories and are living among us in the United States.
- * 14,944 of those illegal immigrants with criminal histories, have current or pending convictions on murder charges.
- * There are thousands of illegal immigrants with known affiliations to violent gangs throughout Central and South America, also living among us in the United States

President Trump and his administration represent a threat to the United Nations achieving Sustainable Development Goals for combatting climate change, transitioning to sustainable (green) energy, changing production and consumption patterns, achieving ‘gender equality’, inclusive and equitable quality education. President Trumps immigration policies now threaten Sustainable Development Goal 10, which was intended to reduce inequality within and among countries.

“We cannot achieve sustainable development and make the planet better for all if people are excluded from the chance for a better life... Governments and other stakeholders can also promote safe, regular and responsible migration, including through planned and well-managed policies, for the millions of people who have left their homes seeking better lives due to war, discrimination, poverty, lack of opportunity and other drivers of migration.”

The ”targets” of Sustainable Development Goal 10 included #10.7 – Facilitate orderly, safe, regular and responsible migration and mobility of people, including through the implementation of planned and well-managed migration policies”.

These planned and well managed migration policies, were facilitated by Non-governmental organizations and the Biden-Harris administration for four years, resulting in tens of millions of illegal immigrants, including thousands of criminals, becoming residents of the United States. If those policies had continued uninterrupted for another four or eight years, they would have eventually have the effect of not only reducing inequality among the United States and Central and South American countries, but forever changing the “cultural diversity” of the United States, undermining our national unity and sovereignty.

(See: Addenda #46 – May 2024; UN Global Migration Compact)

But remember, that is what the original Agenda 21 was all about anyway.

Agenda 21 is a comprehensive plan of action to be taken globally, nationally and locally by organizations of the United Nations System... Agenda 21 is “A comprehensive blueprint for the reorganization of human society...”

United Nations Promotion for Agenda 21, 1992

To achieve a better outcome, the world must act jointly and swiftly to revamp all aspects of our societies and economies... Every country, from the United States to China, must participate, and every industry, from oil and gas to tech, must be transformed...”

Klaus Schwab, World Economic Forum founder, June 2020

Re: Ch. 17, S.D.G. Enforcement by Global Organizations

Re: Addenda #46 – May 2024

SDG 10.7 – U.N. Migration Policies

SDG 17 – Strengthen the means of implementation and revitalize the global partnership for sustainable development

In the November 2024 updates to Addenda #65, I detailed multiple instances of illegal non-citizen immigrants that have committed crimes while living among us in the United States, and how Progressive Democrat Marxists have fought to protect them and thwart attempts by ICE Enforcement and Removal Operations officers to apprehend and remove them from our cities.

One of the cases that has made an impression on me in investigating these cases, was that of 22-year old Laken Riley, a student at the Augusta University's school of nursing who was brutally murdered by an illegal immigrant with a criminal background. The day after the newly elected 119th Congress was sworn in, Republicans introduced the first bill of the session, H.R. 29, to the House Committee on the Judiciary. Known as the Laiken Riley Act, this bill set the requirement for the U.S. Department of Homeland Security to detain illegal immigrants who have admitted to, been charged with, or convicted of theft-related crimes, assault on a law enforcement officer, or any crime resulting in death or serious bodily injury.

The bill was also intended to protect American citizens in the future, if the policy of Homeland Security reverts to what it was under the Biden administration of not seizing and deporting criminal illegals, by allowing individual states to sue the Secretary of Homeland Security to enforce the law.

Democrats protested the bill, falsely claiming it would lead to mass deportations and targeting illegal immigrants for minor crimes. "The bill serves as a license to discriminate against our immigrant communities, including Dreamers," said Rep. Yassamin Ansari (D-Arizona). "Under this legislation, someone charged — just charged, not found guilty — could be immediately deported. This is a gross miscarriage of justice."

Other Progressive organizations also protested the protection of legal U.S. citizens, by removing criminal illegals. "For the children of undocumented families, this bill represents a new wave of fear and instability," said Sarah Mehta, senior border counsel at the American Civil Liberties Union (ACLU). "It is a dangerous precedent that could lead to sweeping human rights abuses."

Note: Entering the United States illegally *is* a misdemeanor crime for first offenders and a felony crime for repeat offenders, punishable by civil and criminal penalties including expulsion from the country.

The Laken Riley Act went to the House Floor on January 7, receiving 216 Yea votes from Republicans and 48 from Democrats, while 159 Democrats voted *against* the bill.

The bill then moved to debate in the Senate, which passed the bill January 20 with 52 Yea votes from Republicans and 12 from Democrats, while 35 Democrat Senators voted *against* the bill. Because the Senate made changes to the bill, it was sent back to the House for an additional vote. The bill passed for a second time in the House with the exact same results as before. President Trump signed the Laiken Riley Act into law on January 29.

Response from the American Civil Liberties Union was immediate. “The first immigration bill of the new Congress, the proposed law would require the government to detain people who pose no risk to their communities. Under the bill, individuals would be mandatorily locked up – potentially for years – because at some point in their lives, perhaps decades ago, they were accused of nonviolent offenses like shoplifting.”

This is a gross misrepresentation of the intent and language of the bill by an organization that exists to (allegedly) protect the civil liberties of Americans.

The September 2024 report released by Immigration and Customs Enforcement showed that there are 662,566 illegal immigrants with criminal histories residing in the United States and not in detention. This number includes 14,944 with current or pending convictions on murder charges, 105,146 with current or pending convictions on assault charges, 36,143 with current or pending convictions on sex offenses or sexual assault, and 70,379 with current or pending convictions of dangerous drugs, all free and living among legal citizens in the United States.

These are the people that the ACLU cares about protecting the rights of, not legal American citizens like Laiken Riley who have become victims, or those who will become victims in the future, if nothing is done to stop it.

These are the people that Congressional Democrats care about protecting the rights of, not their constituents who put them in office to serve, protect and defend them.

It’s a sad commentary on the priorities the Democrat Party today.

Addenda #73 – February 2025

Re: Ch. 8, 050 Net-Zero Emissions; Impossible!

SDG 13 – Take urgent action to combat climate change and its impacts

In his 2024 “Make America Great Again!” presidential campaign, Donald Trump promised voters he would cut government spending, reduce inflation and boost the economy in part by his energy policies. This plan is to boost fossil fuel production (drill baby drill) and terminate government spending on ‘the Green New Scam’, which exploded during the four years Joe Biden was in office.

The American Jobs Infrastructure Plan, known as Bidens “*Build Back Better Plan*” Part 2, dedicated \$518.5 billion for Climate Change and renewable energy spending. The American Families Plan, known as *Build Back Better* Part 3, dedicated another \$386 billion for Climate Change and renewable energy spending.

Together, these two plans alone account for more than \$900 billion in spending over five to ten years in climate change-related priorities, which will be financed through debt issued (borrowed money) by the U.S. Treasury.

With our National Debt already exceeding \$36 trillion, this additional debt issued and the interest we pay to finance it, will affect the ability of the federal government to provide services to all Americans in future years.

When President Trump took office on January 20, 2025, he signed a series of executive orders and actions to overrule policies put into place by President Biden through his own executive orders and actions. This included withdrawing from the U.N. Paris Climate Accord treaty, cancelling electrification of the federal government vehicle fleet (Ref: Addenda #67 – November 2024), cancelling the EPA tailpipe emissions final standards (Ref: addenda #68 – November 2024), and ‘pausing’ all wind lease sales and permitting for offshore wind farm development and construction, for an initial period of six months.

Trump executive orders halt wind development, declare energy emergency

The orders pause wind lease sales and permitting on federal lands while taking steps to accelerate other forms of energy production.

UtilityDive, January 21, 2025

The presidents executive order cited “various alleged legal deficiencies underlying” the federal government’s leasing and permitting of wind projects, and concerns that the projects could lead to “negative impacts on navigational safety interests, transportation interests, national security interests, commercial interests, and marine mammals.”

In have detailed these effects on marine mammals in various Addenda’s in the past, so I won’t revisit them in this one.

The pause affects only the offshore wind industry, which has already had its own share of problems related to increased costs. It does not affect the permitting and construction of any wind or solar installations on land. Any current proposals or applications for offshore leases cannot go forward until they are reviewed by the new administration appointees. Federal

agencies were notified to stop disbursing Infrastructure Investment and Jobs Act and Inflation Reduction Act funding, including any money that Congress already authorized. This order has thrown climate and infrastructure projects at various stages of development into uncertainty and will most likely face legal challenges in the coming months.

President Trump's pick to become the new U.S. Department of Energy Secretary, Chris Wright, earned a bachelor's degree in mechanical engineering and a master's degree in electrical engineering from the Massachusetts Institute of Technology in the 1980's and has worked for several energy companies, many of which focused on natural gas production. Wright, who has never held a government position, has maintained that "There is no climate crisis, and we're not in the midst of an energy transition either... The only thing resembling a crisis with respect to climate change is the regressive opportunity squelching policies justified in the name of climate change," Wright is a critic of the Biden administrations (and Agenda 2030) net-zero carbon emissions by 2050. "Net-zero policies raise energy costs for American families and businesses, threaten the reliability of our energy system, and undermine our energy and national security..."

Wright is in direct contrast to Biden administration Secretary of Energy Secretary Jennifer Granholm, who was a net-zero advocate and was in the spotlight for several high profile comments and actions. During the summer of 2023, Granholm decided to prove to a skeptical American public just how reliable and easy it was to travel long-distance in an electric vehicle. She set off from Charlotte, N.C., to Memphis, Tenn., a 630 mile trip by car should take around 10-hours with refueling stops.

Granholm rode in a \$63,000 Cadillac Lyriq EV, that had an approximate range of 300 miles for the 2-wheel drive version, so in theory, she would have to stop for at least three 30 minute charges at a DC fast charge station to complete the trip. But it wasn't just Granholm making this trip, she had multi electric vehicle entourage accompanying her to publicize the benefits of electric vehicles at stops she made along the way.

What Granholm also had, that the average American does not have when traveling, was an advance team, responsible for finding and securing charging stations for Granholm and her fleet of EV's. At one charging station in Grovetown, Georgia, her advance team realized there weren't going to be enough plugs to go around. One of the station's four chargers was broken, and others were occupied. An Energy Department staffer tried parking a nonelectric vehicle by one of those working chargers to reserve a spot for the approaching secretary of energy. In doing so, they boxed out a family attempting to charge their own EV, on a sweltering day, with a baby in the car. The family was so upset they called the police!

In April 2023, Granholm supported President Biden's plan to convert the entire U.S. military to all electric vehicles by 2030. "I do [support the President's plan], and I think we can get there, as well," "One of the things I found out as President of the United States, I get to spend a lot of that money. We're going to start the process where every vehicle in the

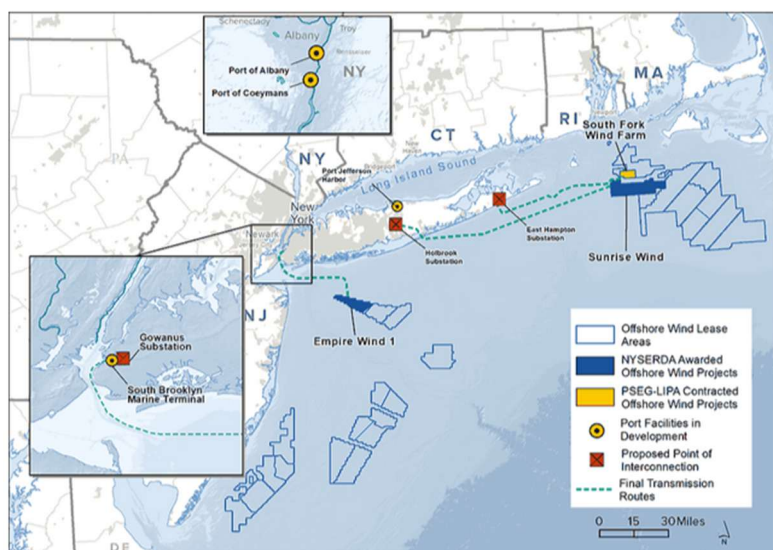
United States military, every vehicle, is going to be climate-friendly — every vehicle — I mean it. We're spending billions of dollars to do it."

President Joe Biden; Earth Day celebration, April 22, 2022

Note: At the end of the Biden-Harris administrations time in office, there were at least 640 civilian staff working on “environmental justice”, either in a full- or part-time capacity in the Department of Defense according to the agencies ‘online scorecard.’

Thank goodness this madness will finally come to an end!

The Biden administration executive orders affected by President Trumps new orders are limited to federal policies and plans and don't impact projects already approved by the federal government and funded by state taxpayers or private developers. Offshore wind projects already approved by Virginia, Maryland, New Jersey and New York won't be affected by the executive orders.



Map of New York's offshore wind projects.

To date, NYSERDA has issued four offshore wind solicitations. Currently, New York has one operating offshore wind farm, the South Fork Wind Farm (132 MW), powering about 70,000 homes, and two projects in development, Empire Wind 1 (810 MW) and Sunrise Wind (924 MW).

<https://www.nyserdera.ny.gov/All-Programs/Offshore-Wind/Focus-Areas/NY-Offshore-Wind-Projects>

The New York State Energy Research and Development Authority (NYSERDA) was tasked by then Governor Andrew Cuomo to solicit bids for renewable energy projects that would help New York state to achieve the 70% renewable energy production by 2030 (70x30 Plan) that was mandated under the 2019 *Climate Leadership and Community Protection Act*. NYSERDA has issued four offshore wind solicitations to date.

2018 Solicitation – NYSERDA executed contracts with Equinor Wind US LLC for the 816 MW Empire Wind Project* and Sunrise Wind LLC* (a joint venture of Ørsted A/S and Eversource Energy) for the 924 MW Sunrise Wind Project.

2020 Solicitation – NYSERDA executed contracts with Equinor Wind US LLC for the 1,260 MW Empire Wind 2 Project and the 1,230 MW Beacon Wind Project.

2022 Solicitation – NYSERDA selected three offshore wind projects: Attentive Energy One developed by TotalEnergies, Rise Light & Power, and Corio Generation (1,404 MW), Community Offshore Wind developed by RWE Offshore Renewables and National Grid Ventures (1,314 MW), and Excelsior Wind developed by Vineyard Offshore (1,314 MW).

2023 Solicitation – NYSERDA executed contracts with Empire Offshore Wind LLC for the planned 810 MW Empire Wind 1 Project* and Sunrise Wind LLC* (developed by Ørsted and Eversource) for the planned 924 MW Sunrise Wind Project.

* These projects were originally awarded by NYSERDA in 2019. (See 2018 Solicitation) The developers, Equinor and BP, terminated the contract Offshore Wind Renewable Energy Certificates (ORECs) agreements in January 2024, citing losses due to “commercial conditions driven by inflation, interest rates, and supply chain disruptions” as the reason for cancelling their contracts. Since the Public Services Commission refused to grant developers a rate increase in November 2023, they cancelled the contracts, rebid the projects at higher prices in January 2024 and were awarded new contracts at significantly higher rates in February 2024. The increased costs for construction of these projects will *still* be paid for by increased electricity costs for New York utility customers in future years even though the PSC denied rate increases for them.

Ref: Addenda #30 – January 2024 and Addenda #40 – February 2024

Offshore Wind Projects awarded by New York State and construction status:

1. South Forks Wind

35 miles east of Montauk Point NY

Ørsted North America Inc. and Global Infrastructure Partners’ Skyborn Renewables

132-megawatt capacity, 12 wind turbine generators

Award Date: January 2017

Start Date: February 2022

Energization: March 2024

South Forks Wind is New Yorks first operational offshore wind farm. An underground transmission line connects the offshore substation to the Long Island electric grid.

2. Sunrise Wind

30.5 miles east of Montauk NY

Ørsted North America Inc. and Eversource Investment LLC

880-megawatt capacity, up to 122 wind turbine generators

Award Date: January 2019

Start Date: July 2023

Energization: November 2026

- ✓ October, 2023: Developers Equinor and BP request “better terms” (a 54% boost in pricing) for the Empire Wind 2 contract to reflect “inflationary pressures, supply chain issues and permitting delays.” The NY Public Service Commission refuses to renegotiate terms.
- ✓ January 2024 - The original developers took write-downs of up to \$1.6 billion on losses due to increased costs, higher interest rates and supply chain disruptions.

- ✓ January 2024 - The developers sold their interest in the project to Danish energy company Ørsted, subject to a successful re-bid and award in NY states 2023 solicitation. If not awarded at new pricing, the project would be cancelled.
- ✓ February 2024 – NYSERDA awards a new contract for the Sunrise Wind project to Ørsted and partner Eversource.
- ✓ June 21, 2024 - Sunrise Wind receives final approval of its Construction and Operations Plan (COP) from the U.S. Department of the Interior’s Bureau of Ocean Energy Management (BOEM). This is the final decision needed from the federal agency to move the project toward the start of offshore construction.
- ✓ July 17, 2024 – Governor Hochul announces the start of construction on Sunrise Wind.

As of this writing, Sunrise Wind is on target to meet its revised completion date of mid-2026. Trenching and conduit installation to the onshore converter station and substation is in progress and mobilization continues for the start of offshore turbine installation.

3. Empire Wind 1

15 miles south of Long Island NY

Equinor and BP (British Petroleum)

816-megawatt capacity, 54 15-MW wind turbine generators, 61% capacity factor

Award Date: January 2019

Start Date: 2023

Energization: 2027

4. Empire Wind 2 (Empire Wind 1, phase 2)

15 miles south of Long Island NY

Equinor and BP (British Petroleum)

1,260-megawatt capacity, 84 15-MW wind turbine generators

Award Date: March 2021

Start Date: 2024

Energization: 2028

- ✓ October, 2023: Developers Equinor and BP request “better terms” (a 54% boost in pricing) for the Empire Wind 2 contract to reflect “inflationary pressures, supply chain issues and permitting delays.” The NY Public Service Commission refuses to renegotiate terms.
- ✓ January 2, 2024 - Equinor and BP write-down a combined \$840 million in losses on New York offshore wind projects.
- ✓ January 3, 2024 - Equinor and BP announce termination of the Empire Wind 2 project.
- ✓ January 2024 - Empire Wind 1 was re-bid in the fourth Offshore Wind Solicitation.
- ✓ February 29, 2024 – Governor Hochul announces conditional award to Equinor, Eversource, and Ørsted for Empire Wind projects.
- ✓ June 4, 2024 - Governor Hochul announces the finalization of new contracts for Empire Wind 1.
- ✓ September 9, 2024 - Vestas announces an 810 MW offshore order from Equinor to power New York’s Empire Wind 1 offshore wind project. The order includes 54 V236-15.0 MW turbines and marks Vestas’ first order in the U.S. for an offshore platform and its industry-leading, type-certified V236-15.0 MW turbine... Turbine delivery is expected to begin in 2026 with completion scheduled for 2027.

- ✓ January 2, 2025 – Equinor announces securing of a financing package for Empire Wind 1 of over \$3 billion. The expected total capital investments, including fees for the use of the South Brooklyn Marine Terminal (SBMT), are approximately USD 5 billion including the effect of expected future tax credits (ITCs).

As of this writing, construction is underway in the redevelopment of the Brooklyn Marine Terminal as project hub for all offshore wind projects. Initial undersea construction work for turbine foundations and undersea cabling will begin in mid-2025, with turbine installation and work on the Brooklyn sub-station expected to begin in the spring of 2026. Final commissioning of the project is still planned for 2027.

5. Beacon Wind 1

60 miles east of Montauk NY

Equinor and BP (British Petroleum)

1,230-megawatt capacity, 78 wind turbine generators

Award Date: January 2022

Start Date: 2025

Energization: 2028

6. Beacon Wind 2

60 miles east of Montauk NY

Equinor and BP (British Petroleum)

1,200-megawatt capacity, 77 wind turbine generators

Award Date: January 2022

Start Date: pending

Energization:

- ✓ October, 2023: Developers Equinor and BP request “better terms” (a 54% boost in pricing) for the Beacon Wind contract to reflect “inflationary pressures, supply chain issues and permitting delays.” The NY Public Service Commission refuses to renegotiate terms.
- ✓ January 2, 2024 - Equinor and BP write-down a combined \$840 million in losses on New York offshore wind projects.
- ✓ January 25, 2024 - Norway's Equinor said on Thursday it had entered an agreement with BP to independently pursue separate wind projects under its bid for New York's offshore wind auctions. BP agreed to assume complete ownership of the Beacon Wind offshore projects.

As of this writing, Equinor and BP have not received final approval of the Construction and Operations Plan (COP) from the U.S. Department of the Interior’s Bureau of Ocean Energy Management (BOEM) for either the Beacon 1 or Beacon 2 projects. These will likely be subject to the new “pause” on offshore wind development.

<https://www.offshorewind.biz/2023/10/13/new-york-rejects-bids-to-renegotiate-offshore-wind-contracts/>

<https://www.nyserda.ny.gov/All-Programs/Offshore-Wind/Focus-Areas/Offshore-Wind-Solicitations/2023-Solicitation#ORECRFP23-1>

<https://www.workboat.com/wind/the-offshore-wind-shuffle-developers-swap-ownership-submit-new-bids>

<https://www.utilitydive.com/news/offshore-wind-new-york-developers-rebid-equinor-bp-orsted-eversource-rwe-national-grid/705852/>

<https://www.politico.com/news/2024/02/29/offshore-wind-costs-new-york-projects-00144143#:~:>

7. Attentive Energy One

47 miles southeast of Long Island NY

TotalEnergies, Rise Light & Power & Corio Generation

1,404-megawatt capacity, 90+ wind turbine generators

Award Date: November 2023

Start Date: pending

Energization:

- ✓ April 18, 2024 – NYSERDA announces that no final agreements could be reached with the three projects that received provisional awards in October 2023 and cancels the project contract for Attentive Energy One. Turbine manufacturer GE Vernova and LM Wind Power abandoned plans to build the 18-megawatt wind turbine which was the product used by developers in the third offshore wind solicitation bid.

8. Community Offshore Wind

56 miles southeast of Long Island NY

RWE Renewables & National Grid

1,314 megawatt capacity, 80+ wind turbine generators

Award Date: November 2023

Start Date: pending

Energization: 2029

- ✓ April 18, 2024 – NYSERDA announces that no final agreements could be reached with the three projects that received provisional awards in October 2023 and cancels the project contract for Community Offshore Wind. Turbine manufacturer GE Vernova and LM Wind Power abandoned plans to build the 18-megawatt wind turbine which was the product used by developers in the third offshore wind solicitation bid.

9. Excelsior Wind

24 miles southeast of Long Island NY

Equinor and BP (British Petroleum)

1,314 megawatt capacity, 80+ wind turbine generators

Award Date: November 2023

Start Date: pending

Energization: 2029

- ✓ April 18, 2024 – NYSERDA announces that no final agreements could be reached with the three projects that received provisional awards in October 2023 and cancels the project contract for Community Offshore Wind. Turbine manufacturer GE Vernova and LM Wind Power abandoned plans to build the 18-megawatt wind turbine which was the product used by developers in the third offshore wind solicitation bid.

On July 17, 2024, NYSERDA launched New York’s fifth competitive offshore wind solicitation, ORECRFP24-1.

Note: The “OREC” refers to “Offshore Wind Renewable Energy Certificates.” The “RFP” stands for, “Request For Pricing.”

NYSERDAS 2024 wind solicitation drew “re-bids” for three already canceled offshore wind projects: Attentive Energy One, Community Offshore Wind and Excelsior Wind. (See above) as well as a proposal for one new offshore wind program, Long Island Wind.

> Attentive Energy 1, if successfully awarded (again), at a significantly increased contract value, is scheduled to begin construction in 2028 with installation of HVDC cabling and equipment in 2031 and offshore wind turbine installation in 2032-2033. Final commissioning and energization is expected to happen in 2033.

> Community Offshore Wind, if successfully awarded (again), at a significantly increased contract value, is scheduled to begin construction at some yet to be identified future date.

> Excelsior Wind, if successfully awarded (again), at a significantly increased contract value, is scheduled to begin construction in 2027 with the installation of HVDC cabling and offshore wind turbine installation in 2029-2033. Final commissioning and energization is expected to occur in 2031.

Note: All three of the above projects were re-bid at smaller megawatt capacities from the original 2022 bid proposals due to changes in the turbine selections available at this time.

The Long Island Wind bid proposal submitted by Ørsted North America Inc., proposes a new offshore wind farm, approximately 43 miles from Montauk, New York and 28 miles from Martha’s Vineyard. The megawatt capacity and construction timeline is unknown. The “Public Version” of bid applications, pricing submitted, and schedules are highly redacted, so the public may never know how much more New Yorkers will be paying for their electricity in the years to come. (see bid documents below)

If the Trump Department of Energy is serious about accelerating domestic oil and gas production and potentially permanently ‘pausing’ all wind lease sales and permitting for offshore wind farm development and construction, these projects may never be built.

What will this do to the looming shortfall of electricity generation in New York state?

In Addenda #70 – December 2024, I detailed the most recent NYISO *Power Trends 2024* report which again emphasized the “Declining reliability margins” and the need for new electricity generation, due to large-scale retirements of fossil fuel generating sources.

“For summer 2024, the NYISO expects 34,913 MW of resources available to meet 31,541 MW of forecasted demand under normal conditions. Under extreme summer weather conditions, however, forecasted reliability margins could potentially be deficient without reliance on emergency operating procedures... With increasing winter peak loads and consideration of limitations on gas availability, there may be insufficient generation to serve forecasted demand for expected weather while maintaining required operating reserves.”

Progressive Democrat policy makers in New York State have gone all in on renewable energy generation as the solution for reducing greenhouse gas emissions and “solving” the problem of climate change. Their blind allegiance to the “religion of green”, is going to have major effects on the residents and ratepayers in future years.

Attentive Energy bid documents

1.4 Cost Effective Renewables for New York City

To deliver on the Climate Act goals and a generational opportunity to transform the power sector, New York State needs offshore wind that is cost-effective and low risk. AE1 is able to provide cost-effective offshore wind through several unique characteristics. [REDACTED]

[REDACTED]

Attentive Energy | NYSDORA ORECRRP24-1

4

As detailed above, AE1 offers a nameplate capacity of 1,275 MW and will deliver clean energy into the heart of New York City via the Ravenswood Site in Queens. AE1 will transform the Ravenswood Site into a clean energy center and provide a model for the environmental justice goals of the Climate Leadership and Community Protection Act (the "Climate Act"). AE1 will also enable a Just Transition for Ravenswood's existing union workforce, providing a green workforce with union jobs. The Project is matured and derisked, having already achieved a major New York State permitting milestone. Under this Submission, Attentive Energy offers NYSDORA the competitive bid options summarized in Table 1-2.

[REDACTED]

Community Offshore Wind bid documents



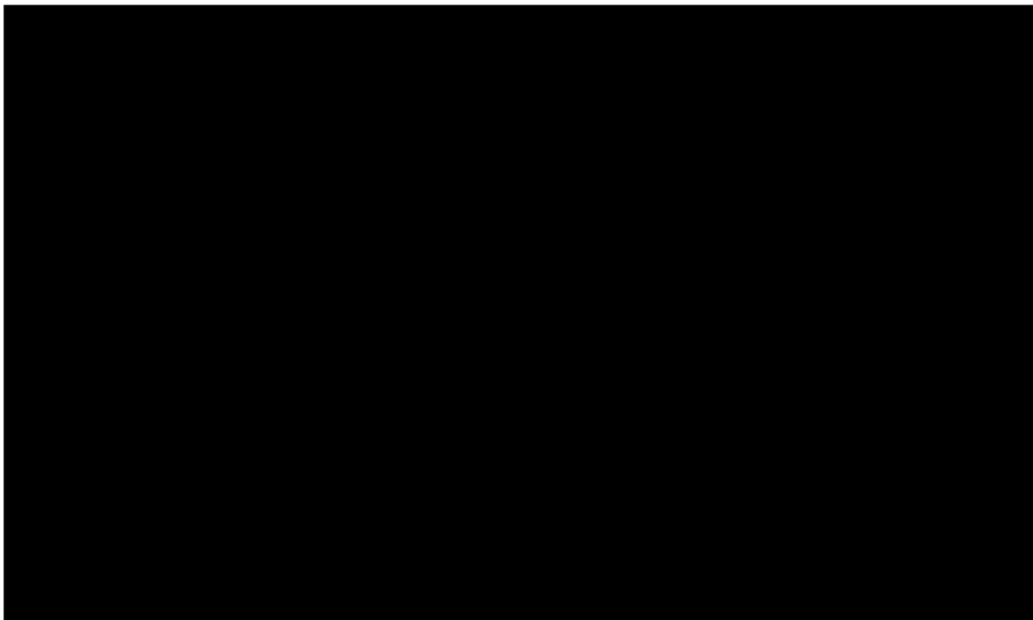
5.1 Summary

Our objective is to accelerate and sustain the offshore wind industry in New York, by delivering our Project on time and without unforeseen complications. Community Offshore Wind recognizes that project scheduling is a critical component to achieving this, and we present in this section our project scheduling and status which highlight our:

- **Highly experienced team leveraging best-in-class planning and methodology:** Our scheduling team is composed of experienced individuals through our parent companies RWE and National Grid, who have advanced over 19 offshore wind farms as well as high-voltage direct current (HVDC) projects to commercial operation. We use this experience to benchmark our project schedule to previous projects and implement lessons learned, resulting in achievable schedules to achieve our proposed commercial operation date (COD).
- **Detailed and achievable project schedule:** Drawing on our extensive project development experience, our team has prepared a detailed and achievable project schedule to help ensure structured, seamless, and on-time project implementation. Our plan considers critical path elements and adjusts for boundary conditions, including adverse weather and vessel speed limits, limiting unforeseen delays. As part of our overall project schedule, we have prepared a design and project timeline that meets the ORECRRP24-1 objectives, including the New York Independent System Operator (NYISO) interconnection process.
- **Progress made toward key milestones, including steps to mitigate delay risks:** We kicked off our Project with the acquisition of our lease area, and we have already completed several site investigation surveys [REDACTED]

In addition, we are open to exploring with NYSDORA project schedule optimization within New York's offshore wind portfolio.

A high-level summary of the Community Offshore Wind project schedule [REDACTED] is provided below in Figure 5-1.



Long Island Wind bid documents

1.0 Executive Summary

1. Project Overview – All Proposals

Table 1.1 – Project Overview

Contract Tenor	[REDACTED]
Offer Pricing	[REDACTED]
Location	OCS-A 0487 and OCS-A 0500 Distance from Shore: Approximately 43 miles from Montauk, NY, 28 miles from Martha's Vineyard, MA Viewshed Impacts: Negligible to New York – see Section 6.2.8.5, Visibility Study
Generation Facilities and Injection Points	Location of Injection Point(s): Zone K [REDACTED]
Timeline	Anticipated Award: November 2024 Expected Commercial Operation: 2032 (Sunrise XL), 2033 (Long Island Wind)

2. Required and Alternate Proposals

[REDACTED]

[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

[REDACTED]

[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

NYSERDA – 2024 Offshore Wind Solicitation ORECRFP24-1 (Closed)

<https://www.nyseda.ny.gov/All-Programs/Offshore-Wind/Focus-Areas/Offshore-Wind-Solicitations/2024-Solicitation>

Addenda #74 – February 2025 [Part 1]

Ref: Addenda #44 – April 2024, Addenda #47 – June 2024, Addenda #66 – October 2024

SDG 7 - Ensure access to affordable, reliable, sustainable and modern energy for all

SDG 13 – Take urgent action to combat climate change and its impacts*

➤ Ch 9. Progressive States Climate Policies

I've written before about the climate policies of New York and California, the two most Progressive states in the country. California has passed a series of bills aimed at both reducing greenhouse gas emissions and moving state energy consumption away from fossil fuels; goals that I believe are impractical and will never be successfully met.

Ref: Ch. 8, Ch. 9, and numerous Addenda's that followed

In 2016, California Democrats passed Senate Bill 100, the *California Renewables Portfolio Standard Program: emissions of greenhouse gases*. The renewables mandate that SB100 replaced required that the total kilowatt-hours retail sellers of electricity (utility companies and independent electricity providers) sold to end-use customers achieve 50% of retail sales by December 31, 2030 to be from renewable sources. SB100 revised the targets to achieve 50% of retail sales from renewable resources by December 31, 2026, and to achieve a 60% target by December 31, 2030, and 100% of total sales of electricity in California to come from eligible renewable energy resources and zero-carbon resources by December 31, 2045.

Well, 2026 is right around the corner, so let's see how California is doing on their target goals. As of calendar year 2023 (most recent data from the Energy Information Administration) total electricity generation and consumption in California is as follows:

2023	GWh	Pct. Prod.	
Natural Gas	94,192	43.68%	
Coal	257	0.12%	
Fuel Oil	36	0.02%	
Waste Heat	206	0.10%	
Petroleum Coke	-	0.00%	
Total Fossil Fuel	94,690	43.91%	
Nuclear	17,714	8.22%	
Solar PV	39,420	18.28%	
Hydroelectric	31,919	14.80%	Renewable electricity generation targets: 33 percent by December 31, 2020, 50 percent by December 31, 2026, 60 percent by December 31, 2030, 100 percent by December 31, 2030
Wind	13,920	6.46%	
Geothermal	10,999	5.10%	
Biomass	5,037	2.34%	
Solar Thermal	1,923	0.89%	
Total "Real" Renewables	103,218	47.87%	
Total In-State Electric Generation, 2023	215,623		
Net Electricity Imports	65,518		
Total Electricity Consumption, 2023	281,141		
Electricity Imports, % of Tot Consumption	23.30%		

In 2020, California's "renewables portfolio" was 82,926 GWh of wind, solar, hydro, geothermal and biomass generation; 43% of all electricity generated "in-state" and 30.2% of all electricity consumed in the state. If only in-state generation is used, then California would have exceeded the renewables target. But since SB100 stated that "total retail sales of electricity" was the benchmark that the renewables portfolio had to meet, California was short of the target by 7,556 GWh. The COVID-19 pandemic slowed adding new renewable power sources and it wasn't until 2022 that California finally met the target goal for 2020.

But despite the big push by Democrat policy makers to meet the December 2026 renewable portfolio goal, "clean electricity" generated from wind farms is going backwards in California. In 2018, wind turbine installations provided 14,087 GWh of electricity to utility customers, 7.2% of all the in-state electricity generation. By 2023, wind generation had fallen to 13,920 GWh, 6.4% of all in-state electricity generation. California, the state that pioneered wind power in the 1970s and early 1980s, has decommissioned more than 10,000 wind turbines over the past three decades. Wind turbines have a life span of between 20 and 30 years, something that the "clean, green" electricity advocates don't publicize. As turbines age, components fail more frequently and need to be replaced, constant exposure to sun, rain, wind, lightning strikes and bird strikes result in structural deterioration and higher maintenance and repair costs, until they become economically unfeasible. At that time the mechanical and electrical components of the turbines are removed and recycled. But the turbine blades, hundreds of feet long, made of fiberglass, carbon fiber or epoxy resins, cannot be recycled. They are cut into small sections and buried in landfills, something else "clean green" electricity advocates don't want you to know.

The Alta Wind Energy Center, also known as the Mojavi Wind Farm, is the third largest onshore wind energy project in the world and the largest installation in the United States. Located in Kern County, California, the project sits on 3,200 acres of land, adjacent to wind farms constructed in the 1970s and 1980s. At a total cost of around \$2.87 billion, the total AWEC project comprises installation of up to 600 wind turbines and supporting facilities. AWEC is supposed to deliver up to 830 megawatts of "clean, green energy", enough to power approximately 257,000 homes.

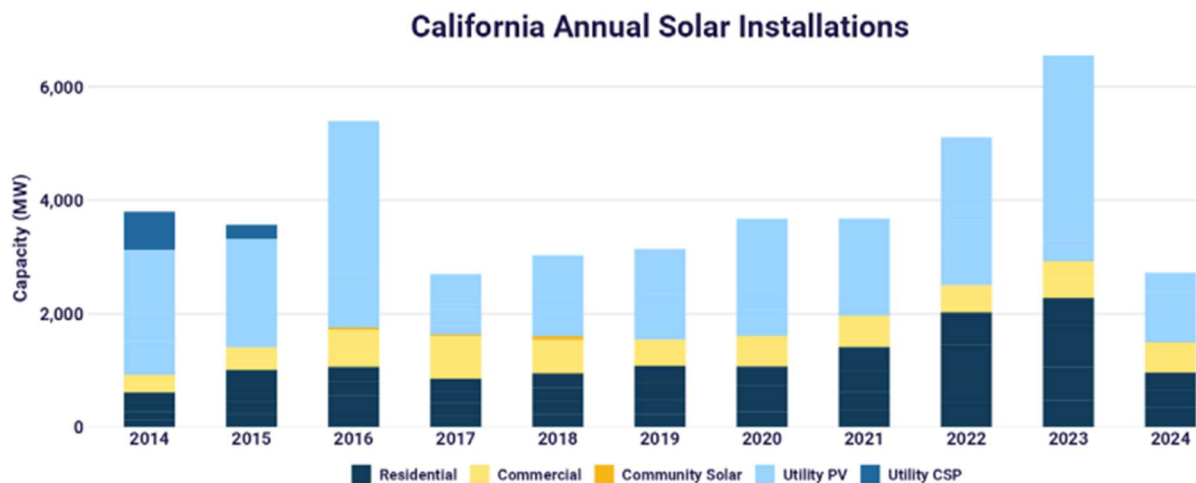
Note: There are 14.76 million housing units in California according U.S. Census Bureau data, so this \$2.87 billion, 3,200 acre renewable energy project can power just 1.7% of all housing units in the state, with NO allowance for power for commercial businesses or industrial facilities.

The Alta wind farm became fully operational over a three year period from 2011 to 2014. At the rated lifespan of 20-30 years, this means the first 100 of 600 turbines will have to be decommissioned and replaced between 2031 and 2041. Think about that for a minute... Right at the time when 50% of all electricity is mandated to be generated from renewable power sources, the owner Terra-Gen Power, will have to begin replacing turbines at an additional cost to themselves and California ratepayers.



Alta Wind Energy Center, Kern County California: : 830 MW electricity generation.
Project land requirements: 3,200 acres. Project Cost: \$2.87 billion. Produces “clean energy” for up to 257,000 homes.

“Clean electricity” from solar installations not only stalled in 2024, it lost ground. According to the Solar Energy Industries Association which tracks solar projects around the country, California only installed 2,700 MW of solar in 2024, down from 6,200 MW in 2023. Utility scale solar installations were one-third of 2023 installations, and residential installations were about 38% of that in 2023.



Source: Solar Energy Industries Association (SEIA), State Solar Spotlight – California, 2023

Note: California is the nation's third largest electricity consumer: it imports more electricity than any other state. In 2023, 23% of all electricity sold by retail sellers to utility customers in California was imported from other states. The “Western Interconnection electrical grid” connects California with Oregon, Washington, Canada, Idaho, Montana and Wyoming to the north and Nevada, Arizona, New Mexico Colorado and Utah to the south and east. Five of these states; Oregon, Washington, Montana, Wyoming and Arizona are net exporters of electricity. Two states, Idaho and California, are net importers of electricity. The other four states are borderline generators for their own use with little spare capacity to export to other states. Canada is also a net exporter of electricity into the electrical grid, but it too has a mandate to achieve net-zero greenhouse gas emissions by 2050.

Out of the imported electricity, it is estimated that a little more than 30% was generated from renewable sources while the balance of imports are from fossil fuel generation, mainly natural gas. If net electricity imports of renewable sources are included, then California's 2023 renewables portfolio was 44% of all electricity consumed. But, it is not a safe bet that these imports will be available in the amount needed by California in the future.

Four of the five states that are net exporters of electricity have renewable portfolio standards or clean energy standards similar to what California has. As these states also systematically decommission fossil fuel generation plants, they will require more and more of those exports to provide for their own residents. California will have less availability to import electricity from other states and their own energy reliability will deteriorate. The California Energy Commission published its annual assessment of the state's situation; *Energy Resource and Reliability Outlook, 2024* in August 2024. In the Executive Summary, the Commission staff stated: “Over the next five years, California electric utility resource plans are projected to meet grid reliability planning standards for the state.” From there, the report began to sound less optimistic.

“As California is part of a larger Western Interconnection and is a net importer of electricity, the conditions in the rest of the West have the potential to impact California's electric reliability. Under 2024 normal operating conditions, the Western Interconnection is projected to have sufficient supply and transfer capability...”

The report then modeled the probability of electric system reliability and resource adequacy under three scenarios. The first two scenarios assumed historical levels of electricity imports from other states. Those two scenarios “successfully met reliability targets for the entire study period.”

The third scenario assumed no imports would be available, the same situation I previously commented on, as well as failure to achieve target levels for the “renewables portfolio”. “... the third scenario, which assumed no imports, could meet reliability targets only after 2026. If there was a 40 percent reduction in new resources, this scenario failed to meet targets in any year.”

The report shows that natural gas generation will continue to be a critical factor in maintaining system reliability for years to come.

➤ *Ch 8. 2050 Net-Zero Emissions; Impossible!*
Renewable Power Sources are NOT reliable

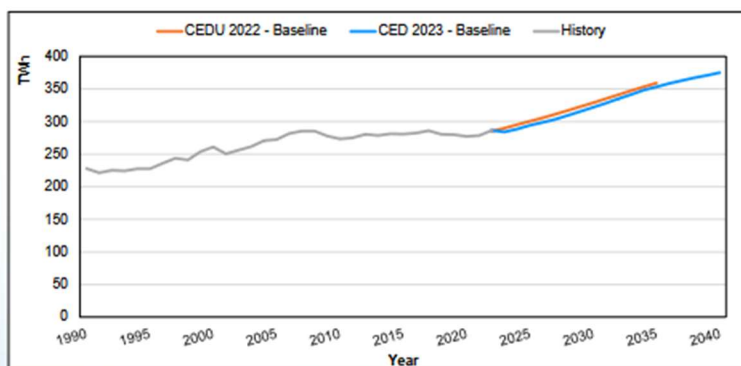
The “clean energy” goal set by the Democrat legislature in 2018 is for 100% production by renewable power sources by 2045. As of the end of 2023, 47.87% of all electricity generated in-state was produced by renewables. (Nuclear is excluded, Democrats want to close down the last remaining nuclear plant in California as soon as possible and not replace it)

In 2018, total in-state electricity generation was 195,234 GWh. Renewable sources generated 85,428 GWh or 43.75% of all electricity produced and 29.88% of all electricity consumed. In the five years since California Democrats set the “clean energy” goal, generation by renewables has increased by 20.18%, an additional 17,790 GWh of electricity. But... California is still in the process of transitioning from fossil fuel powered vehicles, trucks, buses, heating, etc. According to the California Energy Commission *2023 California Energy Demand: Consumption and Sales Forecast Results*, statewide electricity demand is projected to increase by more than 31% by 2040, as increased electrification takes place.



Statewide Electricity Consumption

- Lower electricity consumption is primarily due to household/population changes and price increases.
- The difference in annual average growth rate is approximately -0.3%, but most of this reduction is in the first forecast year, after which CED 2023 growth is consistent with CEDU 2022.



Source: CEC staff

Statewide electricity consumption is forecast to increase by 1.86% annually, reaching about 384 TWh or 384,000 GWh by 2040.

At a continued increase of 1.86% annually, this will equal 421,065 GWh by 2045, a total increase of 139,925 GWh over 2023 consumption levels.

If California is to be truly, 100% renewable energy independent (no imports included), it has to add 139,925 GWh of “clean” renewable electricity generation by 2045 to account for future demand *and* replace the existing 112,405 GWh of electricity currently generated by fossil fuel and nuclear sources.

That’s a total increase of renewable power source generation of 252,330 GWh over a 22-year period, or 11,470 GWh per year, an average annual growth of 4.08% to meet the 100% renewables portfolio targets set in 2018. Yet both wind and solar generation fell significantly in 2024.

Does anyone else see the problem with this besides me??

The environmental politics of California has resulted in not only the closure of coal and oil-fired power plants, but also nuclear plants and “clean energy” provided by hydroelectric sources. In 2017, hydroelectric power plants generated 43,312 GWh of electricity, or 21% of all electricity generated in-state. In 2023, hydroelectric power plants generated 31,919 GWh of electricity, or under 15% of all electricity generated in-state. Part of the decline is due to ongoing drought conditions that have drained reservoirs feeding hydroelectric plants. But Californias environmental politics have also had a major contribution to the decline, forcing the decommissioning of numerous dams that provided “clean green” hydroelectric power to California.

In 2023, California began demolition of four hydroelectric dams on the Klamath River. The project was touted by Governor Gavin Newsom as, “a monumental achievement—not just for the Klamath River but for our entire state, nation and planet. By taking down these outdated dams, we are giving salmon and other species a chance to thrive once again” Five dams on the Klamath once generated 169 MWh of electricity. Demolition of four of the dams was completed in 2024 and the fifth has had capacity severely reduced.

Progressive Democrat politicians have pinned the future of renewable electricity in California on solar generation, due to the naturally sunny climate of the state. Construction projects have added 14,365 GWh of Solar PV generation since 2018, but more projects need to be added in coming years to meet projected demand.

Desert Quartzite, a 300 MW / 150 MW solar-plus-storage project in Riverside California, that came on-line in February. The project was built on 3,000 acres of federal land leased by the Bureau of Land Management. The installation is expected to generate enough electricity to meet the consumption needs of more than 163,000 average California homes.



Desert Quartzite solar project, Blyth, California: 300 MW electricity generation, 150 MW storage. Project land requirements: 3,000 acres. Project Cost: \$1 billion. Produces “clean energy” for up to 120,000 homes.

Note: There are 14.76 million housing units in California according U.S. Census Bureau data, so this \$1 billion, 3,000 acre solar project can power just 0.8% of all housing units in the state, with NO allowance for power for commercial businesses or industrial facilities.

EDF Renewables, the developer of the project, used approximately 461,500 solar panels that have a listed life span of 30 years. The power generation of solar panels “degrades” a little bit each year, producing less and less electricity as time goes on. At the end of their 30-year life span, the Desert Quartzite installation will generate only 259 MW of electricity and the replacement of those 461,500 solar panels will have to begin at an additional cost to the developer, and to California ratepayers. The replacement cost of the panels won’t be limited to just purchases of new panels and their installation, it will also include the removal and recycling of the old panels. An August 2021 article by MIT Technology Review detailed the issue of recycling of solar panels, with the headline reading “Solar panels are a pain to recycle...” The article stated that currently, only about 10% of panels in the US are recycled as there are no mandates by federal or state governments that mandate their use, and recycling the devices is currently much more expensive than just discarding them. Obviously, there will be changes to the problem of recycling in the future as critical metals in the solar panels; aluminum, silver, and silicon, become scarcer and more expensive.

➤ *Renewable generation is not the only issue*

The California Public Utility Commission (CPUC) outlined a projected need for 50% of all electricity to be generated by solar in 2045. Using my base line calculation of total consumption of 405,714 GWh, if California still imports about 65.5 GWh of electricity from other states, solar generation will have to provide 202,824 GWh of electricity by 2045. That’s 163,404 GWh (314%) more than generated in 2023.

Again, does anyone else see the problem with this besides me??

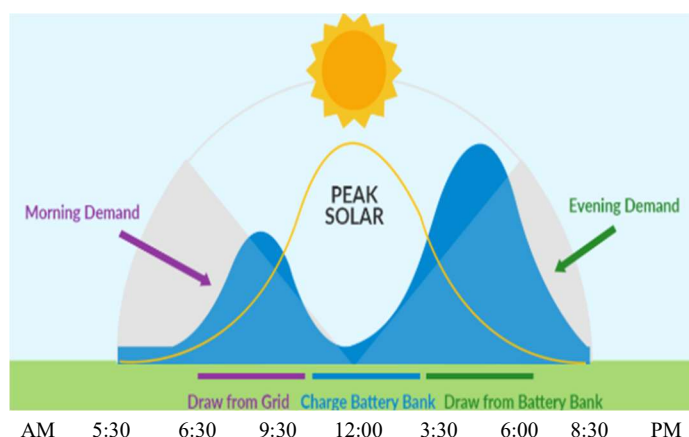
But electricity generation by renewable sources is only one part of the solution to replacing fossil fuel generated electricity in California. As I noted before, California is an ideal location for solar power generation due to the abundance of sunlight. But solar panels need *direct sunlight* (peak sun) to produce the maximum solar output, and just a small amount of shade on a solar PV (photovoltaic) panel can affect its power output. Since solar panels are connected in series (one-to-another) any one cell that’s affected by shade can weaken the other cells, reducing the overall power level of the entire group of panels (array).

IF... total electricity generation by solar PV is 202,824 GWh in 2045, and

IF... 50% of all electricity produced and consumed in California is from solar PV,

> What happens when the sun begins to set and the PV panels begin to generate continually less electricity for those alleged 120,000 homes?

> What happens during the 12-13 hours between sunrise and sunset, when electricity generation from those 3,000 acres of PV panels is zero?



Riverside California

5:30 AM – sunrise, solar generation begins
 7:30 AM - morning demand ramps up, people are getting ready to go to work, school, etc. buildings are heating, cooling and consuming electricity.
 9:00 AM - people are at work and school, home electric demand is substantially reduced.
 3:30 PM - afternoon heat, people leaving schools and offices, home demand ramps back up.
 6:00 PM - buildings close, demand begins to drop.
 8:30 PM – sunset, solar generation ends

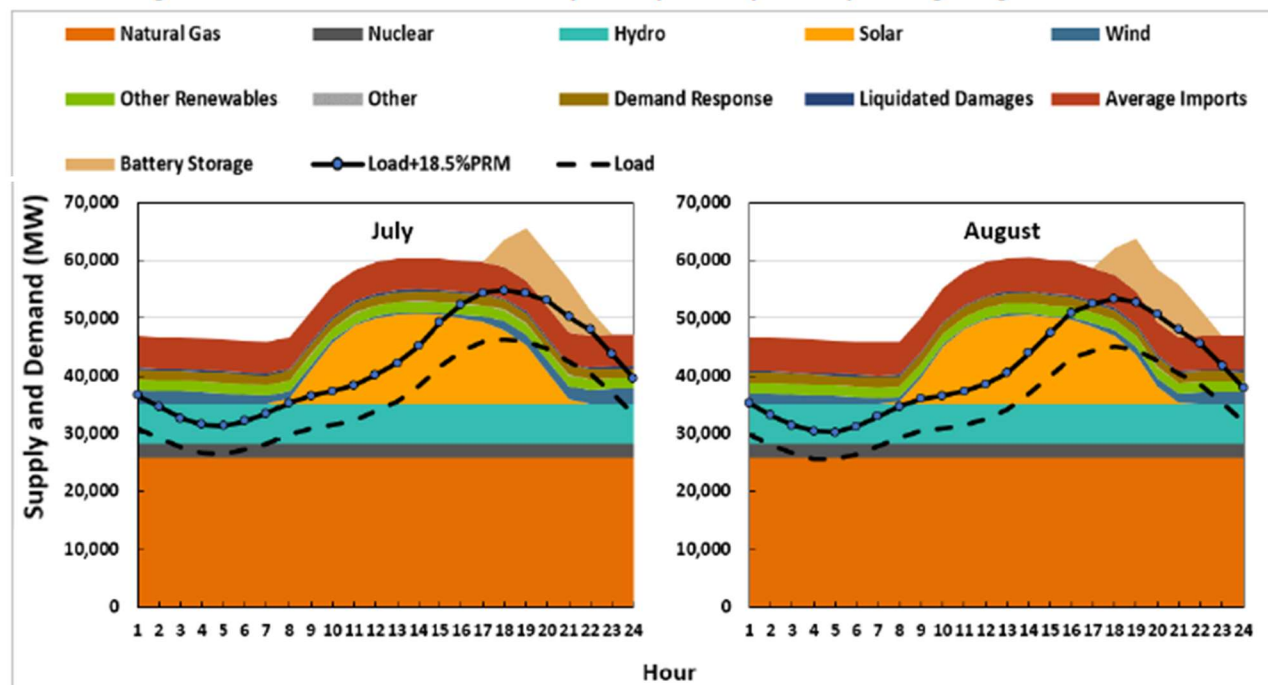
Riverside California has peak sun for an average of 6.2 hours per day. This varies depending on the month of the year, from an average of 4.3 hours per day in December and January, to a average high of 7.6 hours per day in June, July and August.

The Desert Quartzite solar farm will generate its full capacity of 300 MW for roughly seven and a half hours per day during the middle of the summer, a time when air conditioning is running at full capacity to overcome temperatures in the high-80s to mid-90s. As cooling for schools and businesses is ramping up in the afternoon, the sun is dropping below peak sun hours, and electricity production begins to fall. There is less electricity available when the residents of California need it the most.

California ISO

2024 Summer Loads and Resources Assessment

Figure 1.6 Multi-hour stack analysis for peak days in May through August²⁴



Source: California ISO (Independent System Operator) 2024 Summer Loads and Resources Assessment. May 8, 2024
<https://www.caiso.com/Documents/2024-Summer-Loads-and-Resources-Assessment.pdf>

Figure 1.6 (above) from the 2024 Summer Loads and Resources Assessment, shows the load (demand) on the electric grid ramping up during peak days in the summer months of July and August, when temperatures reach the high 80s to mid 90s.

* Demand begins to increase around 5:00 in the morning as residents wake up and get ready for the day ahead. (hours 5 through 7, 5am to 7am)

** Demand continues to climb through the morning hours as businesses open, lighting, power and air conditioning loads increase. (hours 7 through 9, 7am to 9am)

*** Demand continues to increase during the afternoon hours, as temperatures climb, and air conditioning works harder to overcome rising temperatures inside houses and buildings. (hours 13 through 16, 1pm to 4pm)

While electricity generation by existing solar installations increases during peak solar hours, its not enough to keep up with demand. All other fuel sources, including natural gas and imports, must be utilized to keep the grid in balance and maintain reliability of the system.

**** Demand continues to increase as many people leave work and head home at the end of the day, but offices and businesses remain open. (hours 16 through 19, 4pm to 7pm)

The demand for electricity is greatest during these hours, even as “peak-solar” has long passed and the sun is setting, decreasing the available output from solar installations like Desert Quartzite.

*** Demand begins to fall as the sun sets, temperatures start to go down and businesses close. (hours 19 through 22, 7pm to 10pm)

Demand continues to fall as people shut off appliances and go to bed. Cooling is still required to overcome residual heat left from the afternoon hours. The temperature typically remains above 85° during summer months, even after the sun sets. I remember flying into Phoenix Arizona during July years ago, getting off the plane at 10pm and the thermometer at the airport still reading over 90°.

During those peak afternoon hours, not even all the existing in-state generation sources plus imports will be enough to maintain grid balance and reliability. Electricity from battery storage resources must be “discharged” into the grid. In this scenario, the discharge must last for a period of six hours, until demand falls enough to be covered by existing generation sources.

The battery energy storage system (BESS) used for the Desert Quartzite solar farm features a four-hour discharge capacity at 150 MW. That means that the storage system can supply one-half the rated capacity of the entire solar installation for a period of only four hours. As fossil fuel powered generation continues to increase, and as environmental policies result in the dismantling of more hydroelectric dams, and as California pushes to close its last nuclear power plant, the inventory of renewables will continue to increase. Reliable fossil fuel power supplies will make up a smaller part of electrical grid generation. Unreliable renewable power supplies will make up a larger part of electric grid generation.

Battery storage will have to increase, to compensate for the imbalance.

Addenda #74 – February 2025 [Part 2]

Ref: Addenda #55 – August 2024, Addenda #61 – September 2024

SDG 7 - Ensure access to affordable, reliable, sustainable and modern energy for all

SDG 13 – Take urgent action to combat climate change and its impacts*

Battery energy storage continues to be a pivotal technology supporting the integration of renewable energy and providing capacity at peak demand. Specifically, energy storage can address the intermittency issues associated with solar and wind power by storing energy that might otherwise be curtailed and delivering that energy during periods of high demand. The rapid expansion of energy storage has occurred across residential, commercial, and utility sectors in California, providing grid stabilization, peak-shaving, and time-shifting capabilities.

California Energy Resource and Reliability Outlook, 2024

According to the California Energy Commission, total baseload electricity consumption in California will be 421,065 GWh in 2045. This future demand assumes an annualized growth of 1.86%. It does **not** take into consideration future growth of data centers added to the electrical grid.

In November of 2024, the California Energy Commission released another report titled, *Data Center Forecasts*. In this report, their “models” project an average annual growth of data center electricity demand of between 6.0% and 8.7%. This would add between 27,197 GWh and 46,122 GWh of demand on the electrical grid, on top of the existing 421,065 GWh by 2045. This goes to show how disingenuous data from both the EIA and California Energy Commission estimates are.

If this revised estimate is correct, then California must add between 19,697 and 38,622 GWh of generation capacity by 2045 to meet data center demand. This is on top of the baseload generation demand increase of 139,925 GWh and the replacement of the existing 112,405 GWh of electricity currently generated by fossil fuel and nuclear sources.

In all, California now needs to add between 272,026 and 290,952 GWh over the next 22-years to meet the 100% “renewables portfolio” mandate from 2018, an increase of as much as 4.7% per year, for the next 22 years! But with that increase in generation, California also has to increase energy storage proportionately.

As of October 2024, the California Energy Commission reported having a total of 13,391 MW of energy storage capacity installed. The state projects it will need 52,000 MW of battery storage by 2045, an increase of more than 288% over the next twenty-one years.

Note: 13,391 MW of backup storage in 2024 is equal to a backup capacity of 4.68% of total consumption. Desert Quartzite has 150 MW storage capacity for 300 MW of total generation, a backup capacity of 50% of total generation. HMMMMMMMMMMMM??

The Moss Landing Power Plant was a natural gas-powered generation plant. Brought online in 1950, the plant provided 613 MW of electricity. Two additional units were added in 1964, bringing total generating capacity to 2,113 MW. After a series of renovations at the facility, the Moss Landing Power Plant became the largest power plant in California in 2002, with a generation capacity of 2,560 MW. By 2018, the new owner of the plant decided that the plant could no longer operate profitably, and they announced they were going to convert it to an energy storage facility. The conversion to lithium-ion battery energy storage began in 2019, and by August 2023 the facility had grown to a total storage capacity of 750 MW / 3,000 MWh.

At 3 pm on Thursday, January 16, 2025, a fire broke out in one of the buildings containing battery storage systems. The building's fire suppression system failed to put the fire out, leading to the evacuation of around 1,500 residents of the surrounding area. Fire crews responding to the blaze did not attempt to extinguish the fire, instead waiting for it to burn out due to the extreme heat generated by the burning lithium-ion batteries.

Authorities lifted the evacuation order Friday evening, claiming that there was “no threat to human health”, even though the fire continued to burn and smoke, and fumes still rose into the air. Residents were “advised” to close their windows and turn off their air conditioning. Six days after the blaze started, the fire had finally burned itself out, but pockets of heat were still being monitored using drones.

There had been two previous “high temperature” safety incidents at the plant, but no fires had started.



Moss Landing Energy Storage Facility Fire, January 16, 2025.



Black smoke from the burning batteries led to elevated levels of heavy metals, nickel, manganese and cobalt, in the environmentally sensitive marshes around the plant, and residents reported experiencing skin, eye and respiratory irritation.

The fire at Moss Landing is a huge setback for renewable energy in California, as almost half (300 MW) of the facilities' battery storage capacity was destroyed in the blaze. The cleanup and rebuilding process is likely to take several years. During this period, the energy storage capacity of the plant has been significantly reduced, as has the ability to provide grid balance and reliability during the times that unreliable solar sources are not working.

Moss Landing is not the only energy storage facility that has had a fire.

On May 15, 2024, a fire broke out in one of the seven battery storage buildings at the Gateway Energy storage facility in East Otay Mesa, San Diego. The fire destroyed 50 MW of lithium-ion battery storage and took seven days for the fire to burn out due to continuous reignition from the batteries. Eleven days later, firefighters were still monitoring the smoldering remains of the building. The building had to be demolished, and all debris and batteries had to be disposed of while being treated as hazardous materials. The storage facility took two years to construct and bring online. After the fire, officials said the one building could be rebuilt and brought back online sometime in 2025.

On April 19, 2019, an explosion and fire occurred at an Arizona Public Service battery storage facility in Surprise, Arizona. The final incident report stated that an equipment failure in one of the lithium-ion battery modules caused a “thermal runaway” in a rack of batteries. Despite circuit breakers being opened, and the fire suppression system being activated, the module continued to overheat, damaging other modules in adjacent racks and explode, injuring eight firefighters. Fortunately, the system that was affected was a small 2 MW storage assembly, self-contained in a 50’ x 13’ container. Other containers with similar systems were not affected by the explosion. However, if the metal storage container had burned like the building in Moss Landing, the fire could have jumped to the two adjacent battery storage containers.

Industry experts claim that “battery safety has come a long way” since the Moss Landing Energy Storage Facility was built, and repeat fires are “unlikely.” But the underlying problem is still the battery energy storage systems themselves. The Electric Power Research Institute (EPRI) released a 2024 ‘White Paper’ on their *Battery Energy Storage Systems (BESS) Failure Incident Database*. The Introduction of the report stated, “While recent fires afflicting some of these BESS have garnered significant media attention, the overall rate of incidents has sharply decreased, as lessons learned from early failure incidents have been incorporated into new designs and best practices.”

The statistic quoted in the report is that the BESS failure rate globally has dropped 97% over the last five years. Even so, the number of incidents continued to rise from four in 2020 to fifteen in 2023. In the United States, six battery failure events occurred in 2022 and seven in 2023. Half of all incidents globally, occurred here in the United States. The report says the “root causes” of BESS failures are a combination of poor design, manufacturing defects, incorrect installation or commissioning procedures or operational failures.

Ref: Insights from EPRI’s Battery Energy Storage Systems (BESS) Failure Incident Database, Electric Power Research Institute, May 2024

All of these causes eventually come back to human error, whether in design, manufacturing, construction or operation; that is something no one can eliminate with 100% certainty. Fires and/or explosions will occur again in the future, there is no way to prevent that from happening, and grid balance and reliability will be affected.

Addenda #75 – February 2025

Re: Ch. 9, Progressive States Climate Policies

SDG 13 – Take urgent action to combat climate change and its impacts

Even before politicians in California mandated net-zero emissions and a 100% renewable energy portfolio, developers seized on the push to cut greenhouse gas emissions and convert from fossil fueled power plants to renewable sources. In 2010, construction began on a solar thermal power plant built on 3,500 acres of public land near Ivanpah, California. Project developers BrightSource Energy and Bechtel, were provided with a \$1.6 billion loan guarantee by the Obama administration in 2011, and the plant was completed in 2014 at a cost of \$2.18 billion.

Instead of PV solar panels collecting sunlight and converting it into electricity, nearly 350,000 heliostat mirrors the size of a garage door, were focused on a series of receivers located on 459-foot towers. The reflected sunlight was used to heat water in boilers the towers contained, making steam to drive turbines that created electricity. Over time, improvements and cost reductions to PV solar panels made electricity generated by the plant uncompetitive. In addition, the plant never produced the amount of electricity it was designed to generate. The solar thermal energy only resulted in half the facilities generation of electricity. Burning natural gas to heat water in the boilers created to balance.

In January 2025, Pacific Gas & Electric terminated its contracts to purchase electricity from the Ivanpah plant. At the same time Southern California Edison announced it was in talks to buy out the remaining fourteen years of its contract with the facility. If the PG&E and S.C.E. agreements are approved by regulators, the plant will be decommissioned. There is no estimate of what this will eventually cost California ratepayers.

The \$1.6 billion loan paid by the Obama Department of Energy has not been fully repaid.



Ivanpah Solar Power Facility,
San Bernadino county,
California.

392 MW electricity generation
capacity.

Project land requirements:
3,500 acres.

Project Cost: \$2.18 billion
(and counting).

Designed to produce “clean
energy” for up to 140,000
homes.

Addenda #76 – March 2025

Re: Addenda #61 – September 2024 EV battery fires

SDG 13 – Take urgent action to combat climate change and its impacts

See the first-ever electric race car that could be NASCAR's future

CNN's Bill Weir gets an up close look at an all-electric race car that could help NASCAR fulfill their stated goal of being net zero by 2035.

CNN Sports, February 18, 2025

Chevrolet reveals Blazer EV.R NASCAR prototype at Daytona

Chevrolet introduced its Blazer EV.R NASCAR prototype ahead of this year's running of the DAYTONA 500. The Blazer EV.R is an example of Chevrolet continuing to test, learn, and explore new technologies that could be applied to both race programs and production cars.

GM News, February 13, 2025

The Chevrolet Blazer EV.R NASCAR Prototype Is the Brand's First Electric Stock Car Concept

GM becomes the latest manufacturer to enter the electric stock car concept arms race.

Road & Track, February 13, 2025

The Newest NASCAR Electric Race Car Is a Ford Mustang Mach-E

The stock car has three motors and, like the unbranded demonstrator revealed last year, is built around the current NASCAR Next Gen chassis.

Road & Track, January 30, 2025

NASCAR made “history” Sunday, February 16, 2025, with the introduction of an all-electric pace car leading the drivers to the start of the 67th Daytona 500. This is building on a pledge the organization made during Earth Week in 2023, to “reduce its carbon footprint to zero” across its core operations by 2035.

“It’s an ambitious goal but one that holds us accountable as we begin to think about sustainability differently,” said Eric Nyquist, NASCAR’s Chief Communications & Impact Officer.

“This begins the next phase of our sustainability effort,” said Riley Nelson, NASCAR’s Head of Sustainability.

Yep... even NASCAR has gone “woke”

NASCAR; The National Association for Stock Car Auto Racing, has existed as an organization since 1948. Each year, NASCAR sanctions more than 1,500 races at tracks in the United States, Canada, Mexico, Brazil and Europe. Racing is broken up into several divisions, allowing drivers to compete at their level of expertise and giving them the opportunity to move up through the ranks to the highest level of racing in the ‘Cup Series’, at tracks like the Daytona International Speedway and Charlotte Motor Speedway.

Over the years, there have been 128 deaths of drivers and spectators at NASCAR events. 108 of these deaths were drivers; 92 of these deaths due to an accident on the racetrack, another 20 were spectators. Driver deaths have mostly resulted from accidents on the racetrack during crashes. Spectator deaths (and injuries) have resulted from either race cars leaving the track and crashing into the stands, or debris flying from cars that have crashed into fences separating the spectators from the track. Over the years, NASCAR has implemented various safety features, reducing the likelihood of both driver and spectator injuries or deaths. Up to this point, no driver or spectator during a NASCAR event has been killed by fire resulting from a crash. This is not true of other racing organizations.

Formula One racing is wildly considered to be the premier international racing series. Since its inception in 1950, fifty-two drivers have been killed from accidents during F1 events, thirty-two occurring during actual races.

Formula One racing champion Niki Lauda was seriously injured during the 1976 German Grand Prix at the Nürburgring, suffering severe burns and other life-changing injuries as his Ferrari caught on fire during a crash. In the hospital, Lauda's condition was so severe, he was given last rights by the chaplain. Lauda suffered extensive scarring from the burns to his head, losing most of his right ear as well as the hair on the right side of his head, his eyebrows, and his eyelids, resulting in multiple reconstructive surgeries.

Formula One driver Ronnie Peterson died after a crash during the 1978 Italian Grand Prix at Monza Italy. His race car crashed into a steel barrier and caught fire. Several drivers stopped and pulled Peterson from his car before he was severely burned, but he died the next morning in the hospital from multiple injuries he sustained from the crash.

The IndyCar Series is North America's premiere racing series. At the 1981 Indianapolis 500, driver Rick Mears was severely burned during a pit stop to refuel his race car. Methanol fuel sprayed out over the car then ignited when it contacted the engine or the exhaust. Mears, on fire from the waist up with invisible flames, jumped out of his car and ran to the pit wall, trying to get safety workers to extinguish the flames. Mears' fueler, also covered in burning fuel, waved his arms to attract the attention of the fire crews already converging on the scene. Mears' father finally extinguished the flames, Mears and four of his mechanics suffered from burns, Mears underwent plastic surgery on his face.

As with the NASCAR Series, safety features have considerably reduced the likelihood of both driver and spectator injuries or deaths. But racing cars at speeds of 180 miles per hour, any crash has the potential for severe injury and/or death.



Niki Lauda crash & fire



Ronnie Peterson crash & fire



Rick Mears methanol pit fire



These photos show the results of electric vehicle battery fires. Although there are solid state battery modules currently in development, most electric vehicles on the road today use lithium-ion battery modules to power an electric motor, which converts the electrical energy to mechanical energy, propelling the vehicle. Lithium-ion battery fires are not as common as gas powered vehicle fires, in fact the ratio of fires per 100,000 vehicles sold is 1,530 fires for gas vehicles to just 25 fires for electric vehicles.

The problem with lithium-ion battery fires is that once a battery cell fails, it produces an almost instantaneous chemical reaction. Once a battery cell fails, it is impossible to extinguish the failed cell because of the heat generated from the chemical reaction. The heat from the failed cell is transferred to other cells in the battery assembly, known as thermal runaway, causing them to fail as well, leading to extreme heat (1,200 degrees F), smoke, release of toxic gases and fire. Because the battery cells are in sealed containers, they cannot be cooled to prevent thermal runaway.



In September 2022, firefighters responded to a Tesla battery fire in Stamford Connecticut.

Two engines, a truck company, and 14 firefighters were sent to the scene.

It took a total of 600 gallons per minute poured onto the fire for 40 minutes before they were able to declare the fire extinguished.

That is a total of 24,000 gallons of water used.

Depending on the size of the battery pack (longer range assemblies contain more modules), and if the entire assembly is fully involved, it could take 40,000 gallons or more to extinguish an EV battery fire. The website *FireRescue1* is a news site for firefighters. A June 2024 article about electric vehicle fires gives the following advice to firefighters responding to an EV battery fire: “If the battery box is intact and there are no exposures, the best solution is to simply wait for the battery to burn itself out, then extinguish the remaining class A fire. While this strategy is not ideal – and not one favored by aggressive, proactive and eager firefighters – it’s really the best approach.”

The article goes on to say that “It should only take an hour for the battery to burn itself out. The alternative will be to continually dump water on the vehicle for 6 to 8 hours.”

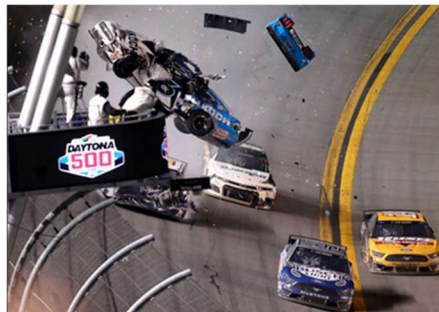
High-voltage batteries in electric vehicles can catch fire because of an internal battery failure, like what happened at the Moss Landing Energy Storage facility in California or the Gateway Energy storage facility in San Diego. [Ref: Addenda #74 – February 2025 Part 2]

Beside manufacturing defects, other reasons that lithium-ion battery modules catch fire include, over charging, exposure to high temperatures, system electrical failures, or from damage to the modules as a result of a crash.

This, is what NASCAR has to look forward to. There is no stopping crashes during auto races, they happen all the time. This year’s Daytona 500 had the highest number of race cars involved in crashes since 2019; 35 of the 41 cars in the race were involved in an accident. At speeds of 180-miles per hour (driver Michael McDowell had the fastest lap during the Race at 199.252 mph) crashes often involve cars going “airborne” as aerodynamics that hold cars tight to the track are lost during crashes.



Kyle Larson, 2013 Daytona race



Ryan Newman, 2020 Daytona 500



Ryan Fleece, 2025 Daytona 500

Accidents like these are sure to eventually result in ruptured electric battery modules, leading to fires that track safety workers will be unable to extinguish. Worse yet, if pieces of battery modules go airborne or explode, they may result in injuries not only to drivers and safety workers, but to fans.

Recent Battery Fires Rock All-Electric Formula E, FIA World Rallycross Championship

Formula E testing at Valencia postponed following explosion in garage area.

Autoweek, October 26, 2023

Europe, being supporters of net-zero and renewable energy, has two racing series that use electric vehicles. Formula E races open cockpit, open wheel electric race cars similar to Formula 1 and IndyCar, mainly on street circuits. World RX Rallycross, full body electric race cars similar to what NASCAR uses. In the Formula E series, race cars are powered by multiple electric motors connected to modules containing densely packed battery cells.

To protect the battery modules from damage in the event of a crash, they are encased in high strength carbon fibre casings with internal and external insulation. There have been many crashes during Formula E races, but due to safety features of the cars, there have been no serious injuries or fatalities to date. There have also not been any crash related battery fires... to date.

In January 2024, driver Sergio Sette Camara was bringing his race car to the starting grid in preparation for the beginning of the Mexico City E-Prix, the first race of the 2024-2025 season. Suddenly the car began making a loud noise, smoke erupted from the battery assembly and a red warning light came on in the cockpit. The battery suffered a “catastrophic failure” and exploded, shortly after Camara jumped out of his car. Camara said later on Instagram, “... understanding what could have happened I’m just glad I’m OK!”

In October 2023, Formula E teams were doing pre-season testing at the Circuit Ricardo Tormo in Valencia Spain. Because of the monitoring and safety systems installed in the race cars, one of the cars came to a stop on the racetrack when the battery system shut down. The car was towed to the pit area and mechanics were inspecting the removed battery module when it exploded and caught fire. The entire pit lane was evacuated as firefighters worked to contain and extinguish the blaze, which damaged two of the garages. Fortunately, this time, there were no serious injuries or fatalities.

In July 2023, at the Lydden Hill race circuit in Kent, England, one of the Rallycross cars caught fire as its battery was being charged. The fire destroyed both cars, a team transporter and valuable tools of the Special ONE race team. The battery manufacturer was unable to provide an explanation for the cause of the fire, or assurances that the electrical system used by all series racing cars was safe to continue using. The Lydden Hill race and subsequent events in Belgium and Germany, were cancelled pending further investigation. The Special ONE race team, lost its cars, transporter and tools, forcing it to suspend activities for the entire season. The team released a statement three months later:



“Various testimonies, surveillance camera footage, telemetry data, and expertise based on samples taken from the debris have definitively established the origin of the blaze: a thermal runaway of the lithium-ion battery onboard the car...

Kreisel Electric, the supplier of this equipment, which is common to all RX1e category models, could not guarantee that such an incident would not recur in the future.”

Special ONE World Rallycross team race car burns in garage.

These incidents did not occur during live races and did not lead to serious injuries or deaths. But its only a matter of time that one of these electric cars will be damaged enough during a race crash, that the battery will be sufficiently damaged to start a fire, potentially leading to severe injury or death. A fire in the race pits, like what happened in Valencia and Lydden Hill, could also lead to tragic consequences.

In the pursuit of its “sustainability goals”, NASCAR will likely lose long-time race fans. It may also experience incidents leading to the destruction of equipment and potential serious injury to drivers, crew members and safety officials.

Update: Addenda #34 – January 2024

Re: Ch. 8, 2050 Net-Zero Emissions; Impossible!!

SDG 7 - Ensure access to affordable, reliable, sustainable and modern energy for all

Ref: Addenda # 73 – February 2025, NY offshore wind projects

Shell halts Atlantic Shores involvement after USD-1bn impairment

RenewablesNow, February 3, 2025

Oil giant Shell plc is pausing its involvement in the Atlantic Shores Offshore Wind Project after booking close to USD 1 billion (EUR 965m) in impairments at a time when the US offshore wind segment is facing political challenges following the return of President Donald Trump to the White House...

Shell's decision to withdraw from the offshore projects will result in USD-996-million impairment charge booked in its fourth quarter 2024 financial results and mainly related to its renewable energy assets in North America. During a call with reporters after the release of the 2024 report, the oil giant CFO Sinead Gorman said that the project failed to meet financial return expectations, explaining that the company does not see the project fitting, “our capabilities nor returns that we would like.”



Atlantic Shores, is an offshore wind farm project consisting of three lease areas, totaling more than 400 square miles. (lease areas highlighted, left)

In 2021, the New Jersey Board of Public Utilities awarded Project 1, the lease area closest to Atlantic City NJ, to Atlantic Shores Offshore Wind LLC, a 50/50 joint venture between Shell Oil company and EDF Renewables North America.

Project 1 was expected to deliver 1.5 GW of renewable energy to New Jersey from 105 to 136 wind turbines, enough to (allegedly) power about 500,000 homes with “clean, renewable energy.”

The combined Phase 1 and 2 projects were supposed to deliver 2.6 GW of “clean, renewable energy” to (allegedly) power 1 million homes, and meet the “Energy Master Plan” established under the Executive Order signed by New Jersey Governor Phil Murphy (Dem) in January 2020. The Energy Master Plan set goals to achieve 100 percent carbon-neutral electricity generation by 2050, reduce state greenhouse gas emissions by 80 percent below 2006 levels, and achieve maximum electrification of the transportation and building sectors.

Sound familiar?

Natural gas and nuclear energy account for more than 90% of New Jersey's total electricity generation, so the success of these two offshore wind projects was critical to achieving the goals of Governor Murphy's *Energy Master Plan*. Even more so since the Ocean Wind 1 and 2 offshore wind projects were canceled by developer Ørsted in October 2023, due to the “adverse impacts relating to supply chains, increased interest rates, and the lack of an OREC (Offshore Renewable Energy Certificate) adjustments...”

Ørsted was forced to write down an estimated \$8-11 billion in expenditures on the failed 2.2 GW renewable energy project.

After experiencing the same “adverse impacts” with Atlantic Shores Project 1, Shell pulled the plug on the project in January, citing “increased competition, delays and changing market conditions (high interest rates, material and labor costs)” and took a write off of nearly \$1 billion. The project had secured most necessary permits and received Biden administration approval in October, but construction had not yet begun.

EDF Renewables books \$980M impairment from Atlantic Shores Offshore Wind

EDF's partner Shell exited the Atlantic Shores joint venture earlier this month, booking a \$1 billion impairment associated with the investment.

UtilityDive, February 25, 2025

Ruh, Ro... both developers took a combined \$1.98 billion write off on the project, NOT good news for Governor Murphy's *Energy Master Plan*.

New Jersey takes giant step back from offshore wind following White House moves, Shell pullout

The Press of Atlantic City, February 3, 2025

New Jersey took a big step back from its strong support of offshore wind power Monday, ending its latest round of project solicitations without approving a new one, and saying it is looking for other uses for its offshore wind port, a state-funded manufacturing site that was designed to build equipment for the struggling industry.

The board said three projects had submitted bids, but two of them withdrew already. That left only Atlantic Shores, which was stung last week by the withdrawal of Shell as one of its two partners.

Finally, after four offshore wind projects were cancelled by developers, the New Jersey Board of Public Utilities has admitted that clean, renewable offshore wind is NOT the solution that everyone thought it would be.

Ocean Wind 1

Awarded under Offshore Wind Solicitation #1, June 2019

Location: 15 miles off the coast of southern New Jersey

Developer: Ørsted North America Inc.

Project: 1,100 megawatt capacity, up to 98 12-MW GE wind turbine generators and three offshore sub stations

OREC: Minimum \$98.10 per MWh, rising 2%/year to \$145.77

Award Date: June 2021
Start Date: Fall 2023
Energization: 2026

Ocean Wind 2

Awarded under Offshore Wind Solicitation #2, February 2020
Location: 15 miles off the coast of southern New Jersey
Developer: Ørsted North America Inc. & Public Service Electric & Gas Company
Project: 1,148 megawatt capacity, up to 96 12-MW GE wind turbine generators
OREC: ??
Award Date: June 2021
Start Date: Fall 2023
Energization: 2028

- ✓ October 31, 2023: *Ørsted halting the development of Ocean Wind 1 and 2 due to rising interest rates and supply chain bottlenecks leading to project delays, seriously impacting the companies' long-term capital investments. The company took a \$4 billion write-down on project losses.*
Co-share holder Public Service Electric & Gas Company sold its 25% share of the project back to Ørsted in January, recognizing the potential financial problems.

Atlantic Shores – Project 1 & 2

Awarded under Offshore Wind Solicitation #2, February 2020
Location: 10-20 miles off the coast of Atlantic City, New Jersey
Developer: Shell Oil company and EDF Renewables North America
Project: 2,800 megawatt capacity, up to 195 Vestas 15MWtm wind turbine generators
OREC: Minimum ??
Award Date: February 2020
Start Date: Fall 2024
Energization: 2028

In August 2023, Whitestrاند Consulting LLC performed an analysis of the Atlantic Shores wind project. The Executive Summary of the report noted that the New Jersey Board of Public Utilities found that the project “will not impose unreasonable costs on NJ ratepayers and that a cost benefit analysis demonstrates a net positive economic and environmental outcome to the state.”

The Whitestrاند analysis of project cost and OREC agreement had a slightly different conclusion, however.

- *NJ ratepayers will be required to pay from \$50-80/MWH over and above the market price for power from the ASOW facility. This in essence represents a ratepayer subsidy for offshore wind generation.*
- *The ratepayer subsidy totals \$7.7 billion over the life of the facility and the 2023 present value (PV) of these above market ratepayer costs is \$2.6 billion.*
- *If the ratepayer subsidy is based on the value of greenhouse gases avoided, the BPU has grossly overvalued the cost of carbon emissions avoided by the renewable wind generation from this facility.*

- *In finding that the economic and environmental benefits of the ASOW project outweigh the subsidized cost borne by ratepayers, the BPU has relied on a benefit-cost calculation that is highly flawed.*

Perhaps the most damning statement of the summary followed the Benefit-Cost comparison...

It is important to note that the costs involving the direct ratepayer subsidies and the effect of those higher electric rates on NJ economy in the form of lost jobs and lower wages, as well as lost tourism dollars, all fall disproportionately on lower income residents and communities who can least afford them. This increased economic burden is in no way justified by any purported environmental benefit which would accrue instead to future generations and populations far removed in space and time from those living in NJ during the life span of the ASOW project

Source: Economic Analysis of the Atlantic Shores Offshore Wind Project - <https://whitestrandllc.com/wp-content/uploads/2024/04/EconomicAnalysisOfAtlanticOffshoreWindProject.pdf>

“... the effect of... lost jobs, lower wages... all fall disproportionately on lower income residents...” Isn’t this the demographic group the Democrats are supposed to historically be protecting and up lifting? Apparently not, when it comes to saving the planet!

- *As a result of the above market rates embedded in the BPU approved OREC prices, Atlantic Shores will realize an 18% internal rate of return (IRR) on its investment which would increase to 21% if allowed to retain the additional 10% bonus Investment Tax Credit (ITC) enacted after the OREC pricing was approved.*

It sounds like the developers; Shell New Energies US LLC and EDF Renewables North America, would have made out much better than New Jersey ratepayers!

According to the developers, the Atlantic Shores Projects are expected to operate for up to 30 years.

That 30-year period ends around 2058. By that time New Jersey Democrats have committed to 100% carbon-neutral electricity generation, and maximum electrification of the transportation and building sectors, the 2,800-megawatt generation from the Atlantic Shores Projects (and the 2,248 MW generation from the Ocean Winds projects will be at the end of their useful life span and will have to be decommissioned and replaced by new offshore wind projects...

Question: Who, in their right mind, given the “adverse impacts” that Shell and EDF Renewables faced in 2024, will be willing to take on construction of new projects without assurances of much higher compensation? (OREC ratepayer subsidies)

Answer: It depends on which political party is in the position of power to mandate usage and determine the price at which developers will be compensated for their investment.

Addenda #77 – March 2025

Re: Ch. 8, 2050 Net-Zero Emissions; Impossible!

SDG 7 – Ensure access to affordable, reliable, sustainable and modern energy

The purpose of this Act is to provide protection from the effects of worldwide climate change by ensuring achievement of the national climate targets and compliance with the European targets. The ecological, social and economic impacts shall be taken into consideration. The basis of the Act is the obligation according to the Paris Agreement, under the United Nations Framework Convention on Climate Change, to limit the increase in the global average temperature to well below two degrees Celsius and, if possible, to 1.5 degrees Celsius, above the pre-industrial level so as to minimise the effects of worldwide climate change, as well as the commitment made by the Federal Republic of Germany at the United Nations Climate Action Summit in New York on 23 September 2019 to pursue the long-term goal of greenhouse gas neutrality by 2050.

The European Union and the Federal Government of Germany made a pledge to achieve greenhouse gas neutrality on September 23, 2019. The term “neutrality” means balancing the emission of carbon into the atmosphere with the absorption of carbon from the atmosphere. Simply, to emit no more carbon that forests, oceans and the soil can absorb and store.

Carbon dioxide gases in the air are turned into wood, roots and leaves, through the process of photosynthesis. As long as young trees continue to grow, this process continues, and they store the carbon they absorb. But as mature trees die, they release this carbon back into the atmosphere. New trees must be continually planted to replace trees that die naturally, are cut down or burned in forest fires. The other solution for this is to simply emit less carbon into the atmosphere by replacing energy sources that burn fossil fuels with allegedly “clean” renewable power sources.

Note: China manufactures about 78% of all the solar panels sold globally. The most recent “Energy Profile” for China showed that 71% of all energy was produced by coal fired power plants in 2022. The manufacturing process for solar panels is very energy intensive, and 62% of electricity generated in China comes from coal fired power plants.

The Centre for Research on Energy and Clean Air, is a nonprofit ‘thinktank’ which researches energy and air pollution. In March 2023, it released a report detailing Chinas commitment to produce more electricity for their growing economy, which includes the manufacturing of said solar panels.

- *Coal power plant permitting, construction starts and new project announcements accelerated dramatically in China in 2022, with new permits reaching the highest level since 2015. The coal power capacity starting construction in China was six times as large as that in all of the rest of the world combined.*

- *50 GW of coal power capacity started construction in China in 2022, a more than 50% increase from 2021. Many of these projects had their permits fast-tracked and moved to construction in a matter of months. A total of 106 GW of new coal power projects were permitted, the equivalent of two large coal power plants per week.*

China permits two new coal power plants per week in 2022; Centre for Research on Energy and Clean Air, February 23, 2023

China accounted for 95% of the world's new coal power construction activity in 2023, according to the latest annual report from Global Energy Monitor (GEM)

CarbonBrief, [U.K. website on climate science and policy] November 4, 2024

China's 2024 coal power construction hits 10-year high, researchers say

Reuters, February 13, 2025

China started construction on 94.5 gigawatts of coal-fired power in 2024, the highest volume of new builds since 2015, hampering the country's transition away from fossil fuels, researchers said in a report published on Thursday.

The world's biggest coal consumer and emitter of climate-warming greenhouse gases had vowed to "strictly control" coal power over the 2021-2025 period, but power shortage concerns have led to a spike in new projects since 2023.

I could go on.... But you get the idea. The country making the overwhelming majority of solar panels that Climate alarmists and government green energy advocates are pushing as the solution to reduce emissions and achieve net-neutrality is the country that sends the most greenhouse gases into the atmosphere making those said solar panels. Of course, very few of our leaders will acknowledge this, or see the irony of the situation.

Back to Germany's greenhouse gas neutrality pledge...

In 2021, federal parliamentary elections were held in Germany, bringing about a change of government. The SPD (Social Democracy Party), the FDP (Free Democratic Party), and the Alliance 90/the Greens (anti-nuclear, environmental, peace) agreed to work together as the newly formed *Federal Government*. This newly formed Federal Government then amended the 2019 Climate Change Act to reduce carbon emissions by 65% of 1990 levels by 2030.

In 1990, German had total carbon emissions of 955,307.70 Kilotons (955,307,700 metric tons) of CO₂. By 2019 when Germany first pledged to become carbon neutral, emissions had fallen to 833,594.9 Kilotons. By 2021 when the newly formed left-wing government amended the Climate Change Act, emissions had fallen to about 548,000 Kilotons, a 42.6% reduction in emissions from 1990 levels. That is an average reduction of 13,577 Kilotons, or 1.42% per year.

The new Federal Government pledge in 2021 would require an additional reduction of 165,878 Kilotons of CO₂ over the next nine years. That is an average of 18,431 Kilotons per year, more than **35% higher** than the annual reduction over the previous three decades!

Germany set to miss net zero by 2045 target as climate efforts falter

Reuters; August 22, 2023

German goals to cut greenhouse emissions by 65% by 2030 are likely to be missed, meaning a longer-term net zero by a 2045 target is also in doubt, reports by government climate advisers and the Federal Environment Agency (UBA) show.

"The expected overall reduction is probably overestimated," Hans-Martin Henning, the chairman of a council of climate experts that advises the government, said in a statement on Tuesday.

German economy ministry plans 2060 target for negative emissions

The International Centre for Sustainable Carbon; September 27, 2023

Germany's economy and climate ministry is working on a long-term strategy for negative emissions, including a 2060 target to ensure the country absorbs more greenhouse gas emissions than it produces, energy and climate newsletter Tagesspiegel Background reports.

Ooops!! They probably should have re-worded this release to say "a more realistic long-term strategy"...

Not to belabor the fact that all climate alarmists, government shills and useful idiots talk a good game but are wildly unrealistic about emissions ambitions, but this is just more proof. But wait, it gets worse...

A weather phenomenon dubbed 'Dunkelflaute' is causing havoc in Germany and pushing energy prices to 2-decade highs

[yahoo!](#)news; December 12, 2024

A weather phenomenon dubbed "Dunkelflaute" that causes chilly, low-wind conditions is sweeping across Europe and causing fresh havoc to Germany's embattled economy, where energy prices have risen to a two-decade high.

A Dunkelflaute, translated as "'dark doldrums" or "dark wind lull," is the bane of renewables companies, with an extended period of low wind and cloudy weather hurting their ability to generate electricity from either wind or solar.

Montel Analytics forecast German wind output to drop to 2.8 gigawatts, compared to a normal capacity of 19 gigawatts at this time of year. The shift in weather has forced Germany to burn more fossil fuels, fire up coal power stations, and import energy from France to meet an electricity demand shortfall. Data from EpexSpot and reported by The Telegraph showed prices for power in the window jumped above €900 per megawatt hour on Wednesday, the highest level recorded in 18 years.

Sabrina Kernbichler, lead power analyst at Energy Aspects Ltd, told Bloomberg: "German wind generation is even lower than the already low forecast levels."

Kathryn Porter, an independent energy analyst at Watt Logic, told The Telegraph the current situation was the result of "poor choices made by Germany over the past 20 years."

"They have closed most of their nuclear power plants and also many conventional thermal plants, while building wind farms like gangbusters," she added.

So if I can just ‘recap’ the information in this Addenda...

1. In 2019, the Federal Republic of Germany pledged carbon neutrality by 2050.
2. In 2019, the government agreed to end the use of nuclear power by 2022.
3. In 2020, the Parliament signed legislation to close all coal fired power plants by 2038.
To achieve carbon emission reductions, they would purchase solar panels from China, manufactured with electricity produced from coal fired power plants.
4. In 2021, the newer left-wing Federal Government accelerated climate goals by 20 years.
5. In 2023, the newer left-wing Federal Government acknowledged they would not be able to meet their 2030, or 2050 climate goals, pushing them out to 2060 instead.

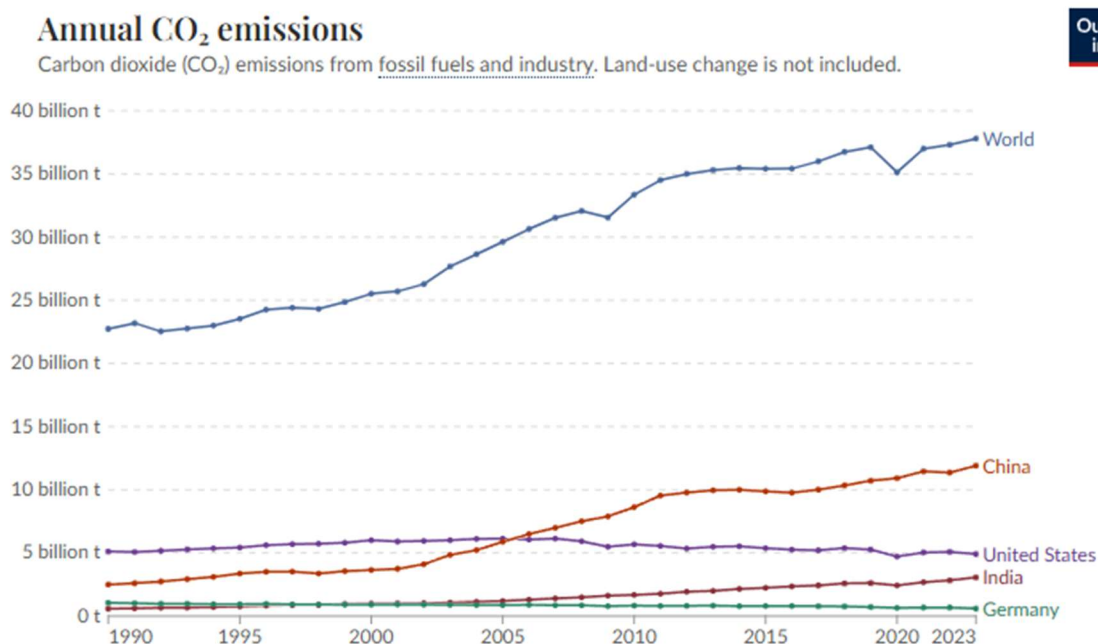
I think that about sums everything up nicely...

What’s next after Merz’s conservatives win German election

Far right comes second, getting best result in a postwar national vote in Germany, sending shock waves across Europe.

Politico, February 23, 2025

The previous left-wing tri-party Federal Government coalition has now been replaced. They received only one third of all votes cast. It appears that in Germany, as in the U.S., the people have had enough of unrealistic and expensive pro-climate and pro-immigration policies.



Regardless of how much money the United States, Germany and the rest of the world spend on renewable energy and climate change, nothing will change!

Addenda #78 – March 2025

Re: Addenda #8 Update

Re: Ch. 8, 2050 Net-Zero Emissions; Impossible!

SDG 7 – Ensure access to affordable, reliable, sustainable and modern energy

➤ *Electric demand for data centers:*

US electricity load growth forecast jumps 81% led by data centers, industry: Grid Strategies

Data from FERC Form 714 shows grid planners expect nationwide power demand to grow 4.7% over the next five years, compared to a previous estimate of 2.6%.

UtilityDive; December 13, 2023

Amid explosive demand, America is running out of power

AI and the boom in clean-tech manufacturing are pushing America's power grid to the brink.

Utilities can't keep up.

The Washington Post; March 7, 2024

In Addenda #47, I detailed the industrywide concern that due to data center growth required by the Artificial Intelligence boom, electric load growth across the United States was far exceeding what grid planners had accounted for in upgrades to regional electric grids. These upgrades are required for increasing growth of renewable power supplies and electrification mandated by federal and state governments.

Revised estimates as of June 2024 now assumed an annual increase in demand of 4.7% instead of the 2.6% originally planned for. Worse yet, since the new electrified economy would require electric heat instead of natural gas during winter months, winter “peak-demand” would be higher than summer peak demand. The December 2023 report assembled by power sector consulting group *Grid Strategies LLC* stated the following conclusions:

- *Grid planners forecast peak demand growth of 38 gigawatts (GW) through 2028, requiring rapid planning and construction of new generation and transmission.*
- *This is likely an underestimate: Several more recent updates are adding additional GWs to that forecast. Next year's forecast is likely to show an even higher nationwide growth rate.*
- *It may take only one or two years to connect new load to the grid, while it may take over four years to bring new generation online and even longer to build new transmission connections between regions to enable power sharing during peak periods.*

If grid planners are not accounting for these drivers, load forecasts will be too conservative, and the system will not be ready to meet growth in electricity demand. Transmission planners need long-term forecasts of both electricity demand and sources of electricity supply to ensure sufficient transmission will be available when and where it is needed. Such a failure of planning could have real consequences for investments, jobs and system reliability for all electric customers.

In December 2024, Grid Strategies released an updated study titled, *Strategic Industries Surging: Driving US Power Demand*. In one year, the revision to peak demand surged 236% from 38 GW to 128 GW.

- *The official nationwide forecast of electricity demand shot up from 2.8% to 8.2% growth over the next five years to 66 GW through 2029 -- but with an additional 61 GW of growth in preliminary updates, nationwide electric demand is forecast to increase by 15.8% by 2029.*

Expanding the grid is critical to sustaining high load growth driven by strategic industries, meeting new large customer technology requirements, and maintaining reliability.

- *Low transmission construction rates and low transfer capability between regions challenge transmission owners' ability to maintain reliability and accept all forecast power demand.*

Meeting rising demand for electricity has significant strategic importance for the U.S. In just two years, the forecast of cumulative electricity growth over the next five years appears to have increased by a factor of five, from 2.8% to 15.8%. This growth is driven by geopolitically and nationally strategic industries such as semiconductor chip manufacturing, artificial intelligence (AI), and battery manufacturing.

<https://gridstrategiesllc.com/wp-content/uploads/National-Load-Growth-Report-2024.pdf>

This report made it even more obvious that the electrical utility industry is way behind in the upgrades to both transmission lines as well as distribution equipment needed to handle these increasing loads. The December 2024 report said it loud and clear; sustaining growth in strategic economic sectors will require significant new investments in electric power sector infrastructure.

Utilities may subsidize data center growth by shifting costs to other ratepayers: Harvard Law paper

"The public faces significant risks that utilities will ... profit from new data centers by making major investments and then shifting costs to their captive ratepayers," the report's authors said.
UtilityDive; March 10, 2025

The article goes on to note that typically, the cost of building and/or upgrading power plants and transmission lines is shared by ratepayers. But as large businesses receive tax breaks from municipalities to entice them to build in a specific area, utility companies may also end up charging residential and commercial customers a much larger percentage of the cost to serve new data centers and manufacturing facilities.

In New York state, there is already a rate schedule that differs significantly between residential customers, commercial business customers and industrial customers. (chart to right)

Monthly Average Retail Price of Electricity - 2024

	Residential	Commercial	Industrial
Jan	23.44	18.07	7.54
Feb	24.23	18.58	7.26
Mar	23.64	17.46	8.01
April	22.97	17.56	7.63
May	23.60	17.72	8.72
June	24.51	19.48	8.77
July	25.01	20.51	9.72
Aug	25.21	20.08	9.88
Sept	24.98	20.52	9.35
Oct	24.98	19.10	9.46
Nov	24.69	17.72	8.99
Dec			
Price per kWh	24.30	18.80	8.67
	100.00%	77.38%	35.67%

Source: <https://www.nyserda.ny.gov/Energy-Prices/Electricity>

Commercial businesses, retail stores, bars and restaurants, health clubs, hotels and motels, movie theatres, banks, etc., consume a lot of electricity. Commercial businesses are also very important for the health and operation of the economy. They produce goods, provide services, employ workers and contribute to the tax base of local communities. Depending on the size of the business and the economy of the community, some commercial businesses receive breaks on property taxes and local services to entice them to build in communities.

Industry companies consume even more electricity and produce more goods and employ even more workers. Industries are an enormous benefit to the communities they are located in and receive even larger tax breaks due to the growth they bring to the area. In New York state, more than one hundred Industrial Development Areas (IDAs) hand out nearly \$11 billion in subsidies each year to incentivize corporations to build in the state. As with the price of electricity, residential taxpayers subsidize commercial and industrial businesses, paying higher rates per assessed value.

If the paper written by the Harvard Electricity Law Initiative is accurate, the public will soon also be paying a disproportionate share of the cost to upgrade the electrical grid, and the largest technology companies; Amazon, Google, Meta, Microsoft and others will reap higher profits. Right here in Central New York, Micron Technology Inc. will receive a huge tax break from Onondaga County, to build a \$100 billion semiconductor facility in Clay, New York. The payment-in-lieu-of-tax deal will result in Micron paying \$84.5 million in local taxes over 49 years, a savings of \$283.9 million over the same period. Micron will save \$3.5 million in the first year alone on town, school and property taxes. This tax break is part of a larger \$9 billion incentive package to entice Micron to build its chip manufacturing facility in New York state, a state with the reputation of having the second highest tax rate in the nation.

Disclaimer:

I usually discount most of what comes out of Harvard Law School, since it is ranked the 6th most Progressive university in the U.S. The media stories about pro-Palestine/anti-Israel protesters, rampant anti-Jewish hatred, harassment and intimidation tactics against Jewish students were in the news for months following the October 2023 Hamas attack in Israel. Harvard President Claudine Gay was forced to resign as a result of her tolerant attitude towards the pro-Palestine protesters and anti-Jewish discrimination on her campus.

Addenda #79 – March 2025

Re: Ch. 8, 2050 Net-Zero Emissions; Impossible!

SDG 7 – Ensure access to affordable, reliable, sustainable and modern energy

The Sustainable Development Goals Report 2024 makes for sobering reading. It finds that only 17 per cent of the SDG targets are on track, nearly half are showing minimal or moderate progress, and progress on over one third has stalled or even regressed... Inequalities keep growing. The climate crisis continues to escalate.

The Sustainable Development Goals Report, 2024; United Nations

SDG 7 The number of people lacking electricity access grew for the first time in a decade... Global investment needs to triple to rectify marginal gains in energy efficiency.

SDG 9 Continued declines in CO2 emissions intensity are not yet enough to cut global emissions.

SDG 11 High rates of unregulated urban sprawl pressure the environment...

SDG 13 Highest-ever greenhouse gas emissions reveal a global failure to meet climate goals...

The 2024 UN report on the lack of progress of Sustainable Development Goals, especially as it relates to climate change, come as no surprise to me; I've been writing about this for almost two years now. Since the Paris Climate Accord was signed in December 2015, global CO₂ emissions have continued to increase although at a slower rate. Emissions have decreased in the European Union by almost 20% and emissions in the United States have decreased by almost 9% since 2015. But CO₂ emissions in China have increased by more than 25% and in India by 37% over the same period, with both countries building record numbers of coal fired power plants to support their growing economies energy needs. Global CO₂ emissions in 2023 were 66% higher than in 1990 and 132% higher than in 2015, nowhere close to the 50% cut from 1990 levels Global Elites pledged to meet by 2030.

In June 1989, Noel Brown, director of the New York office of the U.N. Environment Program, gave an interview to the Associated Press. The topic was climate change and Brown made several claims during the interview about how devastating rising global temperatures would be to the earth in future years. In 1989, thirty-six years ago, Brown claimed governments have a 10-year window of opportunity to solve the greenhouse effect before it goes beyond human control. Brown predicted that if the warming trend was not reversed by the year 2000, ocean levels would rise up to three feet flooding coastal regions, we would experience another 1930s type 'dust bowl', ferocious windstorms, hurricanes and wind shear. Now, twenty-five years after that "window of opportunity" has passed, Global Elites of the U.N. are still acting as if were right back in 1989, and we still have that 10-year window of opportunity to solve the emissions problem.

One of the topics Brown spoke about, was measures governments could take to help reverse emissions and stabilize global temperatures, which included preserving the world's rain forests.

“Each acre of rain forest can store 100 tons of carbon dioxide and reprocess it into oxygen.” I touched on this issue briefly in Addenda #77 (March – 2025) and more in depth in Addenda #54 (August – 2024).

“To achieve universal access to clean energy by 2030, robust policies are needed to accelerate electrification, enhance energy efficiency and increase investments in renewable energy. These efforts, coupled with fostering innovative solutions and creating supportive regulatory frameworks, are pivotal to advance towards Goal 7 and meet climate objectives.”

Robust policies, being a code word phrase for *restrictive mandates*.

In Addenda 77, I noted that one of the “innovative methods” climate change activists promote is the use of carbon credits or carbon offsets, to achieve reduction of greenhouse gases. Continually caring for existing trees or planting new ones is a method activists point to for reducing emissions. The United Nations *International Day of Forests* is March 21st. On the webpage dedicated to this event, you can find all sorts of “facts” about how forests are, “pillars of global food security and nutrition” and play a “key role in agriculture... soil enrichment, climate regulation and biodiversity conservation.”

But these ecosystems are in danger.

We lose 10 million hectares annually due to deforestation and approximately 70 million hectares affected by fires. Protecting and restoring our forests is urgent and necessary: the well-being of the planet and future generations depends on them.

Each year, the United Nations holds its annual Climate Change Conference, known as the Conference of the Parties, or COP. Each year it is held in a different location around the globe, and each year Global Elites fly to the conference in their private jets, spewing the equivalent of CO₂ emissions equal to several hundred households.

In 2024, the Climate Change Conference, COP 29, was held in Baku, Azerbaijan. In an article posted on the U.N. Climate Change web page, COP 29 was promoted as follows;

To put it simply, the COP is where the world comes together to agree on the actions to address the climate crisis, such as limiting the global temperature rise to 1.5 degrees Celsius, helping vulnerable communities adapt to the effects of climate change, and achieving net-zero emissions by 2050.

Actually, it is not “the world” that comes together “to agree” on actions, it is the Global Elites who come together. *They* determine which rules *we* will be subjected to, in order to keep up the appearance that we are in a desperate but winnable fight to save the planet. Two hundred fifty four Global Elites attended the twelve day conference in November 2024. The Elites flew on Qatar Airways to attend the conference. But their accommodations weren’t coach or even first class. The Global Elites meeting to discuss how we will have to reduce our own carbon footprint by living more sustainably and using less energy, were booked in Qatar Airways Qsuites, a special luxury accommodation only the most influential, powerful and wealthy can afford.

Your suite offers ambient mood lighting, lie-flat beds and generous storage space, creating a new standard in comfort... Our seats have been thoughtfully dressed in the latest and finest fabrics, to optimize your comfort...

Qatar Airways Qsuite promotional web page: <https://www.qatarairways.com/en/onboard/qsuite.html>

Note: The Cato Institute ranked the Republic of Azerbaijan number 127 in its 2024 *Human Freedom Index*, noting the countries “authoritarian government”, rampant corruption, election fraud and extensive crackdowns on independent media and LGBTQ people. The economy of the Republic of Azerbaijan relies on oil and gas exports and is one of the top ten most fossil fuel-dependent economies in the world. Global Elites of the United Nations, who proclaim they are so concerned about gender equality, sustainable and inclusive economies, and combatting climate change, handed the government of the Republic of Azerbaijan hundreds of millions of dollars, to attend a twelve day conference in a country with such low freedom scores in these issues. Truly remarkable!

In addition to reporting on how lavishly the Global Elites traveled to COP 29, the report by the New York Post also used data from the US Environmental Protection Agency and the UN’s own Carbon Emissions Calculator, analyzed CO₂ emissions from the flights to Azerbaijan.

A New York Post analysis of CO₂ data, found the massive delegation racked up a carbon footprint of at least 1,500 metric tons during the round trip to Baku from Washington, DC. Figures from the US Environmental Protection Agency show the trip creates the same amount of greenhouse gases as meeting the yearly power needs of 200 households in the US, or the equivalent of 350 automobiles.

Sorry, I got a little off track from the topic I started with. But I did this for a reason. The Global Elites that created those Sustainable Development Goals, the Elites who decide we must conserve more, consume less, live sustainably and use more electricity from unreliable renewable sources that cost us many times more to use, do not follow the same rules they set for us. They never have. They never will.

The intent of the first Earth Day in 1972 was to bring awareness to what man had done to the environment: pollution of the land, the water and the air. This, was as noble cause! But somewhere along the way, the Elites took over the movement and co-opted it for their own benefit, wealth and power. Their version of the agenda to save the planet, was never about saving the planet. It was about consolidation of power for them and impoverishment for us. It was always about control!

This year, the Climate Change Conference, COP 30, will be held in November in the city of Belém, Brazil. Belém is the capital and largest city of the state of Pará, with a population of more than 1.3 million. Belém is also known as the *Metropolis of the Brazilian Amazon region* or the *Cidade das Mangueiras* (City of Mango Trees) due to the vast number of those trees found in the city. This part of northern Brazil is well developed, but the area to the

south of the city, the Amazon Basin, is 2.3 million square miles of freshwater rivers and streams. The Amazon Basin is home to roughly 60 percent of the world's rainforest and harbors 10 percent of the planet's known forms of plant, bird and animal life.

Amazon forest felled to build road for climate summit

BBC; March 12, 2025

A new four-lane highway cutting through tens of thousands of acres of protected Amazon rainforest is being built for the COP30 climate summit in the Brazilian city of Belém.

It aims to ease traffic to the city, which will host more than 50,000 people - including world leaders - at the conference in November.

The state government touts the highway's "sustainable" credentials, but some locals and conservationists are outraged at the environmental impact.

The Amazon plays a vital role in absorbing carbon for the world and providing biodiversity, and many say this deforestation contradicts the very purpose of a climate summit.

Along the partially built road, lush rainforest towers on either side - a reminder of what was once there. Logs are piled high in the cleared land which stretches more than 13km (8 miles) through the rainforest into Belém.

So Global Elites will once again travel in luxury accommodations, to this years Climate Change Conference. They will spew more carbon emissions into the atmosphere as they arrive at COP 30, where they will talk about achieving Sustainable Development Goals, including reducing emissions, sustainable living and reducing poverty...

Claudio Verequete lives about 200m from where the road will be. He used to make an income from harvesting açai berries from trees that once occupied the space.

"Everything was destroyed," he says, gesturing at the clearing. Our harvest has already been cut down. We no longer have that income to support our family. He says he has received no compensation from the state government and is currently relying on savings.

And Claudio Verequete won't even be able to use this new road when it is complete, there are high walls on either side of the highway separating his community from access to it.

For us who live on the side of the highway, there will be no benefits. There will be benefits for the trucks that will pass through. If someone gets sick, and needs to go to the centre of Belém, we won't be able to use it.

Prof Silvia Sardinha is a wildlife vet and researcher at a university animal hospital that overlooks the site of the new highway. She and her team rehabilitate wild animals with injuries, predominantly caused by humans or vehicles. We are going to lose an area to release these animals back into the wild, the natural environment of these species," she said. Land animals will no longer be able to cross to the other side too, reducing the areas where they can live and breed.

The BBC article goes on to note that the state government of Pará had touted the idea of this highway, known as Avenida Liberdade, as early as 2012, but it had repeatedly been shelved because of environmental concerns. The states secretary of infrastructure had claimed that Avenida Liberdade would be "a sustainable highway."

Eight-mile stretch of Amazon forest is felled... to build four-lane highway for COP30 climate summit

Daily Mail; March 12, 2025

An eight-mile stretch of protected Amazon rainforest has been felled to make space for a new four-lane highway in time for the COP30 climate summit.

Drone footage and images have revealed thick dirt lanes cutting through the lush greenery as the Brazilian government prepare for the conference in November.

The road will be used to ease traffic in and out of the city of Belem, which will host a staggering 50,000 people - including world leaders.

Massive stretch of Amazon rainforest destroyed for upcoming COP30 climate summit's 4-lane highway: 'This is a loss'

New York Post, March 12, 2025

Tens of thousands of acres of protected Amazon rainforest are being cleared and paved over to build a new four-lane highway for, of all things, the upcoming COP30 climate summit in Brazil.

The eight-mile stretch of new highway — dubbed Avenida Liberdade, or Avenue of Liberty — has gouged a deep gash through a large swath of Amazon rainforest just in time for world leaders to convene to discuss how much they care about the Amazon rainforest.

The state government has repeatedly insisted the highway is “sustainable” — but that rings hollow to locals and conservationists who are condemning the project.



Photographs and satellite images show construction taking place within the Metropolitan Belém Environmental Protection Area, created by the government in 1993 to protect and preserve the Brazilian rainforest.

According to a 2017 study published in the journal *Science*, “Rainforests are essential to life on Earth. Not only do they provide air, water, medicine, food, and shelter to a multitude of living beings, they are also one of our best natural defenses against climate change because of their capacity to absorb greenhouse gases from the atmosphere.”

The article also notes that, “tropical forests that once served as the Earth’s carbon sinks now emit more carbon than they absorb, because of deforestation and forest loss caused by humans... Restoring them and their ability to sequester carbon is one of several critical steps we must take to address our global climate crisis.”

In March 2024, climate media outlet *ThinkLandscape*, published an informational article about deforestation in the Amazon rainforest. The article noted that while after years of “record-breaking deforestation” the rate at which trees are being cut down and cleared are falling drastically. Still, the writer noted that, “The Amazon rainforest is on the brink of a tipping point that could cause it to dry out as soon as 2050, releasing vast amounts of carbon emissions into the atmosphere.”

Human activities – farmers who clear the land for crop production, cattle ranching and fuel for fire, drug cartels who clear land for planting coca plants for cocaine production, government clearing land for urban population growth, and industry clearing land for mining of rare earth minerals; Natural disasters – drought, and forest fires, have led to the loss of 300,000 square miles of forest and 10% of all natural non-forest vegetation. Now the road to COP 30 cuts through hundreds of thousands of square miles of rainforest, activists say is a critical defense against climate change.

Does anyone else see the contradiction between sustainable development goals pushed by the Global Elites and the reality of what is happening due to their climate conference?

Addenda #46 Update – April 2025

Re: Ch. 17, S.D.G. Enforcement by Global Organizations

SDG 10.7 – U.N. Migration Policies

In Addenda 46, I broke down the *United Nations Migration in the 2030 Agenda for Sustainable Development* report, which calls for massive global migration of people from poorer, underdeveloped nations to wealthier developed nations. The premise of this migration is to benefit those who move to wealthier nations, to improve their lives and give them opportunities they could never have in the countries they live in.

But *my* interpretation of what is really behind the mass migration policy, is to break down the resistance of nations that are refusing to cooperate with all Sustainable Development Goals of Agenda 2030. Global Elites of the U.N. cannot let individual governments or nations stand in the way of implementing those goals, especially the U.N. net-zero emissions goal.

I stated then, “If the majority of a nation’s citizens were resistive to their plans, the opinions of that majority had to be changed... or overcome. Enter the United Nations *Global Compact for Safe, Orderly and Regular Migration*.”

➤ *A “Blueprint” for Change*

The Biden administration was complicit in helping the migration compact to succeed with that “regular migration”. Hundreds of thousands of illegal immigrants crossed the U.S. southern border during his presidency with the help of non-governmental organizations (NGOs) and were bussed and flown to congressional districts all over the United States. Future voters in state and federal elections, for when comprehensive immigration reform, amnesty and citizenship, is implemented by a Democrat administration in the future. One of the cities illegal immigrants were relocated to is New York city.

By the end of 2024, more than 210,000 illegal immigrants had arrived in New York city since the spring of 2022, when the Trump administration policy of “catch and expel”, had changed to the Biden administration policy of “catch and release”. By setting up a system to allow anyone crossing the border to apply for asylum, the administration released them into the U.S. to wait for an immigration hearing that would be years in the future. Instead of them being called illegal immigrants, they were now referred to as asylum seekers or just migrants.

During those two-and-a-half years, Mayor Eric Adams constructed emergency shelter sites and reopened closed hotels and appropriated other locations to house these “migrants.” Under the city’s “right to shelter” sanctuary policy, 150 hotels provided food and rooms for the migrants, who receive between 30 and 60 days of free housing with laundry facilities and help with childcare. The overall costs to house asylum seekers per night is \$352 and spending for 2023 and 2024 surpassed a staggering \$2.3 billion.

An estimated 36,000 migrant children were enrolled in New York city schools, straining city resources. New York City spent \$2.3 billion in costs for housing migrants alone in 2023 and 2024, resulting in city agencies having to cut costs by 5% for legal tax-paying residents of the city.

<https://nypost.com/2024/10/23/us-news/migrant-crisis-cost-150bn-in-2023-local-towns-cutting-costs-to-cope/>
<https://www.nytimes.com/article/nyc-migrant-crisis-explained.html>
<https://www.edweek.org/policy-politics/a-more-complete-picture-of-immigrations-impact-on-u-s-public-schools/2024/06>

Seeing an opportunity to permanently affect change in New York city, the Democrat majority City Council voted in December 2021 to allow non-citizen but “legal city residents” to vote in municipal elections. Democrat mayor Bill de Blasio never signed the bill, but he didn’t veto it either, he left the bill to incoming Democrat Eric Adams to deal with. Adams also didn’t sign or veto the bill, but he voiced his support for it saying, “New Yorkers should have a say in their government.” By his inaction, the bill automatically became law in January 2022.

Let’s understand the meaning of “legal resident” as defined by New York state. A “legal resident” of the state is defined as a person who is “domiciled” in New York, or who has “a permanent place of abode” in New York *and* spends 184 or more days in the state during the calendar year. A “domicile” is the place where your *permanent* home is located and is suitable for year-round use. A shelter or a room in a migrant hotel *does not* constitute a domicile, the person must reside in an apartment or a home. An “abode” is a dwelling place such as an apartment, boarding house or home. It can also be a *permanent* room in a hotel or motel.

Entering the U.S. without permission from immigration authorities is illegal. The person who enters the U.S. illegally is classified as “unlawfully present” in this country, subject to misdemeanor offense of immigration law, incarceration of up to six months and subject to a civil penalty of up to \$250. An illegal immigrant is not eligible to be a legal state resident.

An illegal immigrant who remains in the U.S. for 10 years or longer can petition immigration court for a suspension of deportation, only if they can show that their removal from the country would cause “exceptional and extremely unusual hardship” to one or more of your close family members. Those close family members cannot be illegal immigrants, they must be U.S. citizens or permanent non-citizen residents. And the petitioner cannot have violated certain laws or have been convicted of certain crimes. This is a “high bar” to prove. Any immigrant who has been met or apprehended at the border by law enforcement agents and applied for asylum, is considered to be in the U.S. legally and is eligible to become a legal resident of any state, subject to the same laws as other citizen residents.

Back to New York City’s non-citizen voting law. Republican politicians immediately challenged the law, arguing it was unconstitutional and would “devalue the citizen New Yorkers’ votes.” In June 2022, a Staten Island Supreme Court judge struck down the law, saying it violated both the state constitution and various provisions of state law. The judge

also issued a permanent injunction, barring the city Board of Elections to let almost 800,000 non-citizen “migrants” register to vote. Democrats immediately challenged this decision. In February 2024, a state appeals court upheld the lower court decision saying, “We determine that this local law was enacted in violation of the New York State Constitution and Municipal Home Rule Law, and thus, must be declared null and void.” The ruling judge noted that the state constitution broadly refers to only citizens having the right to vote in elections, for municipal as well as statewide or state legislative offices.

The Democrat led City Council again filed an appeal with the New York Court of Appeals, the state’s highest court. On March 20, 2025, the court ruled 6-1 that the law violated the state constitution. “Whatever the future may bring, the New York Constitution as it stands today draws a firm line restricting voting to citizens.” Current and past Democrat council members voiced their outrage that noncitizens here legally should be able to vote because they pay taxes and make contributions to their communities. Mayor Eric Adams said he was disappointed with the ruling but accepted the court’s decision.

Q: Who is eligible to register to vote?

A: To qualify for voter registration in New York State, you must:

- be a United States Citizen;

<https://elections.ny.gov/frequently-asked-questions>

New York city Democrats knew their law was in violation of the state Constitution, but they didn’t care. They wanted to further the agenda of “fundamental transformation of the United States”, that Barack Obama promoted during his presidential campaign in 2008. They continued to file counter appeals, hoping to find a progressive judge that would side with them on the decision. They made statements of outrage about the overturning of the law, seeking to convince others that their position was perfectly legitimate, continuing to push the narrative that noncitizens should be able to vote because “they pay taxes and make contributions to their communities.” This was, and still is, an effort to “normalize” an unconstitutional position, to get others to be outraged that illegal non-citizens are denied the right to vote, even if they don’t deserve that right due to their immigration status.

New York City is estimated to have a total population of 8.097 million in 2024, including a large percentage of those 800,000 non-citizen “migrants” Democrats wanted to add immediately to the voter rolls. There are 5.354 million registered voters in the city, 3.511 million are registered Democrat or Green Party voters. Eric Adams received 67% of all votes cast in the 2021 mayoral election, so it’s not as if adding another 800,000 potential Democrat voters would have made any difference in *local* elections. But should the state constitution ever be amended to allow non-citizens but legal residents of New York state to vote, it would have a profound effect in *statewide* elections.

If a Democrat led Legislative and Executive branches should ever grant blanket amnesty for illegal immigrants, this would have a profound effect on *national* elections. Current estimates have as many as 11 million illegal immigrants living in the United States.

Granting immediate citizenship through amnesty would also allow them the right to vote in all elections. Since it is the Democrat party leading the effort to achieve amnesty and full rights to illegal immigrants, it follows that a large majority of them would return that favor by voting for them in elections, forever tipping the balance in local, state and national elections in favor of the Democrat party. Anyone who consistently receives benefits from politicians knows you must continue to support the hand that feeds you. Want more proof?

Andrew Gelman is a professor of statistics and political science at Columbia University. He received bachelor of science degrees in mathematics and in physics from MIT and a master of science and a doctor of philosophy, both in statistics from Harvard University. Gelman has written thirteen books on statistics and data analysis. One of those books, written in 2008, is titled *Red State, Blue State, Rich State, Poor State: Why Americans Vote the Way They Do*. One of the topics Gelman covers in his book, is why Democrats win elections in wealthy states while Republicans get the votes of richer voters. Gelman analyzed data showing that “Red States get more welfare funding, while Republican voters oppose the welfare state. He concluded that low-income voters who drag down the Red States average, tend to vote disproportionately for Democrats.”

<https://wallstreetpit.com/89671-are-welfare-recipients-mostly-republican/>

In 2012, Syracuse University’s Maxwell School of Citizenship and Public Affairs, published a report based on data from 2004 to 2007. The *Maxwell Poll*, showed that,

- 81% of voters that supported Democrats receive public housing assistance
- 74% of voters that supported Democrats receive Medicaid medical insurance
- 67% of voters that supported Democrats receive food stamps
- 66% of voters that supported Democrats receive unemployment compensation
- 64% of voters that supported Democrats receive government disability income payments
- 63% of voters that supported Democrats receive some form of welfare/public assistance

<https://rare.us/rare-politics/issues/democrats/81-of-people-receiving-public-housing-benefits-vote-democratic-and-thats-just-the-tip-of-the-handout-iceberg/>

In 2011, the Kaiser Family Foundation published a series of reports about health-related issues. One report dealt with health issues common to those who are “long-term unemployed”, that is, have not worked for 27-weeks or longer for one or more reasons. The report titled *Long-Term Unemployed Survey*, while intended to uncover health issues, also revealed a few other trends.

More than half of respondents earned less than \$30,000 annual income, below the median individual income for that year or the lower half of all personal income earners. More than half of respondents said their employment situation was the decision of their employer, being laid off or fired for whatever reason. More than half of respondents said they could trust the government in Washington to do what is right--most of the time or some of the time. 71% of respondents blamed the Republicans in Congress for their situation. 54% of long-term unemployed respondents said they were Democrat or leaned Democrat, while only 25% were Republican or leaned Republican.

<https://legacy.npr.org/assets/news/2011/12/poll/topline.pdf>

Also in 2011, the Center for Immigration Studies published a report titled, *Welfare Use by Immigrant Households with Children*.

<https://cis.org/sites/cis.org/files/articles/2011/immigrant-welfare-use-4-11.pdf>

Thirteen years after welfare reform, the share of immigrant-headed households (legal and illegal) with a child (under age 18) using at least one welfare program continues to be very high. This is partly due to the large share of immigrants with low levels of education and their resulting low incomes — not their legal status or an unwillingness to work.

The study revealed that in 2009, 57% of households headed by an immigrant (legal and illegal) with children (under 18) used at least one welfare program, compared to 39 percent for native households with children. This discrepancy between native born American residents and immigrants held true even before the Great Recession of 2008 – 2010. Households with children headed by immigrants from Central and South America had welfare rates between 70 and 82%, and 71% of households with children headed by illegal immigrants used at least one welfare program in 2009.

There were an estimated 10.8 million undocumented illegal immigrants living in the United States at the beginning of 2009. By 2024, this number had increased to an estimated 16.4 million: 11.4 million undocumented illegal immigrants plus 5 million more who were caught at our borders and released into the United States pending immigration hearings. If those percentages from the 2011 Center for Immigration Studies report are used, there are more than 11 million illegal immigrants receiving some form of state sponsored welfare program in the United States today. These undocumented illegal immigrants and migrants seeking asylum, are not college educated, or even high school educated adults, ready to step in and fill management, professional, technical, office or administrative jobs. They don't have the qualifications to qualify for most Civil Service positions.

The majority of undocumented illegal immigrants or asylum seekers will find employment in agriculture and construction, the food service industry, meatpacking, handyman, custodian, maintenance and housekeeping, landscaping and groundskeeping, childcare and elder-care or the fast-food industry. These are all mostly low wage jobs with no benefits.

In his 2018 book, *Death of a Nation, Plantation Politics and the Making of the Democrat Party* Dinesh D'Souza talks about "plantation politics" and the Democrat party being the party of enslavement, going back to pre-Civil War south of the 1800s: "The Democrat master class recognized that it needed carrots as well as sticks, and beyond that, it needed a whole social system that would bind slaves physically and emotionally to the plantation. So the master class created a slave system based on total dependency."

This 'enforced subordination', according to progressive black sociologist W.E. Du Bois, was the true meaning of slavery. "But for many Americans – especially poor blacks, Latinos and Native Americans... the past has not disappeared from the present... there is a continuity between the Democrats of the mid-nineteenth century and the Democrats now, and a system of enforced dependency is the precise way in which Democrats today maintain their ethnic plantations." Enforced dependency...

The *Great Replacement Theory*, is known as a “far-right conspiracy theory”, in which Western Elites (progressive Democrats) are purposefully bringing in mass numbers of immigrants to replace whites and change the culture and society of the United States by changing the demographics of the United States. The Great Replacement Theory is not a far-right conspiracy *theory*. It is a far-left Progressive Elite *plan*, to do just that. Consider;

Data set #1:

In the 1980, 83.855 million Whites voted in the Presidential election.

In 2020, 109.8 million Whites voted in the Presidential election, an increase of 25.945 million or 30.94%.

In the 1980, 8.287 million Blacks voted in the Presidential election.

In 2020, 18.090 million Blacks voted in the Presidential election, an increase of 9.8 million or 118.3%.

In 1980, 2.453 million Hispanics voted in the Presidential election.

In 2020, 16.46 Hispanics voted in the Presidential election, an increase of 14 million or 571%.

The number of Hispanic voters grew by 3.778 million, or 29.8% between the 2016 and 2020 elections alone. No data is available for the 2024 election yet.

Data set #2:

In 1980, 56% of Hispanics voted for the Democrat Presidential candidate, Jimmy Carter. That's 1.373 million votes.

In 2020, 61% of Hispanics voted for the Democrat Presidential candidate, Joe Biden. That's 10.699 million votes, an increase of 9.325 million votes, or 678.86% over 40 years.

The total number of votes cast from the 1980 election to 2020 increased by 65.144 million, or 70% over 40 years. The number of Hispanic voters grew almost ten times more, than the number of ALL voters combined did!

A good friend of mine continues to insist that not all Hispanics are liberal. While this may be true, facts are facts! Over the past thirteen presidential elections, 65% of Hispanic voters supported the Democrat candidate. As the number of Hispanic voters continues to grow by such large percentages, their historical support for Democrat candidates insures an ever-increasing voter base for future elections. Add in the fact that low-income voters receiving public assistance vote disproportionately for Democrats. Then add in the fact that such a large percentage of illegal, undocumented immigrants and asylum seekers have low levels of education, work mostly low wage jobs with no benefits, forcing them to use public assistance programs.

Democrats claim the *Great Replacement Theory* is a “far-right conspiracy theory.” Just remember that it's only a theory until you can actually see it happening before your eyes...

Addenda #65 (October 2024) Update Part 1 – April 2025
Re: Ch. 17, S.D.G. Enforcement by Global Organizations
SDG 10.7 – U.N. Migration Policies

➤ *Customs and Border Protection “Nationwide Encounters”*

I wrote in Addenda #65, October 2024, “According to the U.S. Customs and Border Patrol (CBP) website, since January 2021, border agents recorded 10.457 million “encounters” with migrants attempting to cross into the U.S. illegally. These are just the *known* encounters. The true number of immigrants attempting to cross into the U.S. can only be guessed at.

What *is* known, is that in the first four months of Fiscal Year 2021, *before* Joe Biden took office, monthly encounters averaged less than 92,000. In February 2021, nationwide encounters spiked to more than 115,500 and continued to increase to a high of 370,883 in December 2023.

In Addenda #72 (January 2025) I wrote about President Trump signing an executive order invoking the National Emergencies Act and declaring that a national emergency exists at the southern border. the “enforcement actions” Immigrations and Customs Enforcement (ICE) was taking in cities around the United States. The President also authorized ICE to begin rounding up and deporting illegal immigrants with criminal records.

ICE Arrests in First 50 Days of Trump Administration

Department of Homeland Security, Release Date: March 13, 2025

WASHINGTON – In the first 50 days of the Trump Administration, Immigration Customs and Enforcement (ICE) has made 32,809 enforcement arrests. To put this figure into perspective, in the entire fiscal year 2024, ICE’s Enforcement and Removal Operations made 33,242 of these at-large arrests.

As of Tuesday, ICE has officially made more at-large arrests in the first few weeks of President Trump’s presidency than the entire last year under the previous administration.

Of the illegal aliens we’ve arrested in the past 50 days:

- *14,111—nearly half—were convicted criminals.*
- *9,980—About a third— have pending criminal charges.*

So, ICE made 32,809 arrests, 24,091 were convicted criminals or had been arrested for criminal offenses which have yet to be decided through the judicial system. Included in the numbers arrested by ICE are 1,155 suspected gang members and 44 foreign fugitives. One of the gang members arrested was David Alejandro Orellana-Aleman, a 27-year-old Salvadorian national, a high-ranking leader of the MS-13 transnational terrorist organization, who controlled the operation of MS-13 groups in the U.S., Mexico and Europe. Orellana-Aleman, who has pending charges for possession of a firearm, extortion and terrorist affiliation, entered the U.S. illegally (of course, criminals don’t obey laws!) on an unknown date.

"We ended catch [and] release, and we have returned ICE to its core mission, which is arresting people who violate our immigration law," said acting ICE Director Todd Lyons. "Secretary Noem and I are changing the culture of ICE to one of action and accountability."

In a letter sent to Congress in September 2024, Immigration and Customs Enforcement, Deputy Director Patrick Lechleitner stated that 662,566 illegal immigrants with criminal histories, including more than 13,000 immigrants convicted of homicide — either in the United States or abroad — are living outside of Immigration and Customs Enforcement detention. This includes thousands of gang members, including members of MS-13 and Tren de Aragua. Translation, they are living among us in the United States.

* The number of “nationwide encounters” reported by U.S. Customs and Border Protection officials fell from 142,763 to 124,990 following the November election, and illegal border crossings fell almost 18%, from 56,523 to 46,615.

* After Donald Trump’s inauguration and executive order was issued, the numbers dropped to 81,528 encounters and 29,101 illegal crossings for the month of January.

* After ICE enforcement and removal operations began in earnest, the numbers dropped to 28,654 encounters and to 8,347 illegal crossings for the month of February.

* As removal operations continued, and ICE began weekly deportation flights to Central and South American countries, the numbers continued to drop to 29,065 encounters and 7,000 illegal border crossings for the month of March.

In contrast, over the five months following the November 2020 election, encounters surged from 90,000 per month to 192,000 by March 2021 in response to President Bidens open border policies, which included the policy of “catch and release” of illegal immigrants.

“... We heard the sheriff say it, the governor say it and the migrants I spoke to say it... They are coming across because they believe they will be welcomed under the Biden administration. You said yourself three weeks ago we're not saying don't come, we're saying don't come now...”

“Martha good morning. The message is quite clear, do not come. The border is closed, the border is secure.”

ABC’s *This Week* co-anchor Martha Raddatz interviewed Homeland Security Secretary Alejandro Mayorkas exactly two months after Joe Biden took the oath of office as president in January 2021. Encounters at all U.S. borders surged after his inauguration and continued increasing over the next 32 months. In December 2023, there were 370,883 encounters at all U.S. borders, an increase of 300% from the month *before* Joe Biden and Alejandro Mayorkas began to direct immigration policy. Between 2022 and 2024, 3.845 million non-citizens were released into the United States on their own recognizance with a “notice to appear” at a later date, or through the administrations “humanitarian release” program. More migrants were apprehended trying to cross the United States-Mexico border in 2023 than in any year since 1960.

Apparently, the message was not clear, and the border was not closed!

Ref: U.S. Customs and Border Protection website; Stats and Summaries – Custody and Transfer Statistics

On December 18, 2023, U.S. Customs and Border Protection agents ‘encountered’ more than 12,500 immigrants at the southern border, the highest number of encounters on record for a single day. CBP agents in Eagle Pass, Texas encountered more than 4,000 immigrants that same day and the following morning more than 3,000 were waiting along the border to be processed into the United States.

In fiscal year 2023, U.S. CBP reported 3.201 border encounters ‘nationwide’, 2.061 million of those encountered were “unaccompanied adults.” Immigration and Customs Enforcement agents could not do the job they were tasked to do; to safeguard the border and to protect the American people. They had no time to investigate and evaluate thousands of immigrants at that time, to see if they were risks to public health, public safety or national security. All they could do was to process them and give them a date to appear before an immigration court judge.

In January 2024, President Biden stated to reporters, “I’ve done all I can do to secure the border...”

In November 2024, candidate Donald Trump promised to close the US-Mexican border.

March numbers show most secure border in history - operational control is becoming a reality

U.S. Customs and Border Protection Press Release, April 1, 2025

The month of March recorded the lowest southwest border crossings in history, marking a pivotal achievement in our nation’s border security efforts. This milestone demonstrates that operational control is becoming a reality — which seemed impossible just a few months ago under the Biden administration — as enforcement measures continue to yield significant results.

In March, the Border Patrol data shows that around 7,180 southwest border crossings were recorded, a dramatic drop compared to the monthly average of 155,000 from the previous four years. Daily southwest border apprehensions have also fallen to around 230 per day—a 95% drop from the previous administration’s average daily encounters of 5,100 per day.

“Under the leadership of President Trump and Secretary Noem, the administration has taken bold, decisive action to restore control at the border. Border Patrol agents are empowered like never before to shut down unlawful entry and protect American lives,” said Acting Commissioner Pete Flores. “The message is clear: the border is closed to illegal crossings, and for those still willing to test our resolve, know this — you will be prosecuted, and you will be deported.”

* In March 2021, Homeland Security Secretary Alejandro Mayorkas stated: “*The border is closed, the border is secure.*” Over the next forty-six months, nationwide border encounters averaged 230,995 per month.

* In March 2025, under Homeland Security Director Kristi Noem, the message delivered was, “the border is closed to illegal crossings.” In the first two months of the Trump administration, nationwide border encounters averaged 28,860 per month.

* In January 2024, President Biden said, “Just give me the power. Give me the border patrol. Give me the people. The judges. Give me the people who can stop this and make it work right”

* In January 2025, President Trump again declared a “National Emergency” at the southern border and ordered the U.S. military and National Guard to deploy “as many units or members of the Armed Forces, including the Ready Reserve and the National Guard, as the Secretary of Defense determines to be appropriate to support the activities of the Secretary of Homeland Security in obtaining complete operational control of the southern border of the United States.”

* In January 2021, President Biden froze all money appropriated for border wall construction projects by the Trump administration. The White House announced this decision saying, “Today’s action reflects this Administration’s continued commitment to defending our nation and supporting our service members and their families”

* In 2023, the Biden administration sued the state of Texas over installation of floating barriers in the Rio Grande river to prevent immigrant crossings, and to stop the installation of razor wire placed along the Texas – Mexican border. The Biden administration also proceeded to sell millions of dollars of unused parts previously purchased for construction of the border wall saying, “a border wall is not a serious immigration solution.”

* In January 2025, President Trump authorized the construction of “additional physical barriers along the southern border.”

* One president gave “lip service” to securing the southern border and protecting U.S. citizens, while actively promoting illegal immigration and permitted the *Great Replacement* “conspiracy theory to become reality.

* One president took measures necessary to halt illegal immigration and begin the process of removing criminal illegal immigrants from the United States before they can harm any more Americans.

Addenda #65 (October 2024) Update Part 2 – April 2025
Re: Ch. 17, S.D.G. Enforcement by Global Organizations
SDG 10.7 – U.N. Migration Policies

When Biden's successor, President-elect Donald Trump, takes office on Jan. 20, he will be inheriting a quiet border.
npr, January 18, 2025

Interesting choice of words by the NPR, it almost sounds like they're trying to give Joe Biden credit for reducing illegal immigration. Of course, NPR is rated as having a left-center bias, so this is not all that surprising. But the border was not quiet as journalist Jasmine Garsd would like people to believe, as there were 124,552 nationwide encounters during the previous month. Yes, that may be lower than the record high of December 2023, but still almost 32,000 more encounters than the month before Joe Biden took office in 2021. The Biden administration only began to crack down on illegal immigration at the beginning 2024, because of the unrelenting pressure from Democrat 'sanctuary city' mayors crying for relief and Democrat candidates running for office in November who were seeing their chances of being elected being diminished by the immigration issue. Joe Biden was also facing reelection in November 2024, and polling in January had the race "too close to call", with 42% of Americans listing illegal immigration as an issue of importance.

While Democrat politicians in key races were shifting to the right on illegal immigration, Democrat voters weren't changing their views. A June 2024 Pew Research poll found that 85% of Biden supporters felt that undocumented [illegal] immigrants should be allowed to remain in the U.S. and 83% were against deportation. Just two weeks before the election, only 15% of Democrat voters rated illegal immigration a top three electoral issue. After Trump was reelected and authorized ICE raids and deportations of criminal illegals, there was a nationwide outcry from Democrat politicians, the liberal media and Democrat voters.
(Ref: Addenda #72 – January 2025)

The Alien Criminal Apprehension Program (ACAP) was established in 1986 by the former Immigration and Naturalization Service, with its primary purpose being the identification and removal of criminal aliens. The Bureau of Immigration and Customs Enforcement, formed after the 9-11 terror attacks, took control over the responsibility for securing U.S. borders and enforcing immigration law and ACAP was renamed the Criminal Alien Program (CAP). President Obama actually holds the record for most deportations and is known as the "Deporter in Chief." During his eight years in office, ICE removed 3.1 million illegal immigrants. Donald Trump removed 1.2 million during his four years in office.

Joe Biden removed just 682,000 during his four years, most of those coming during his final year in office. Biden was following the wishes of his voters and those who controlled White House policy under his administration, working hard to fulfill the "blueprint for change" or *the Great Replacement*. (Ref: Addenda #46 Update – April 2025)

The work of continuing deportation of criminal illegal immigrants began during Donald Trump's first term, was immediately taken up with his return to office in January 2025. Through March 13, 2025, Immigration Customs and Enforcement (ICE) has made 32,809 enforcement arrests, including 24,091 who had been convicted of crimes or had been arrested for criminal offenses which have yet to be decided through the judicial system. Included in the numbers arrested by ICE were 1,155 suspected gang members.

More Foreign Gang Terrorists Deported Out of America

Press Statement; Marco Rubio, Secretary of State, March 31, 2025

Last night, in a successful counter-terrorism operation with our allies in El Salvador, the United States military transferred a group of 17 violent criminals from the Tren de Aragua and MS-13 organizations, including murderers and rapists.

Task force nabs more than 40 people with alleged ties to Tren de Aragua in Hays County

Austin-American-Statesman, April 2, 2025

A task force of federal, state and local authorities has arrested more than 40 people in Hays County who are accused of being members of the notorious Venezuelan gang Tren de Aragua... Known by the acronym TdA, the gang has been implicated in crimes such as human smuggling, human trafficking of immigrant women and girls, extortion and drug trafficking.

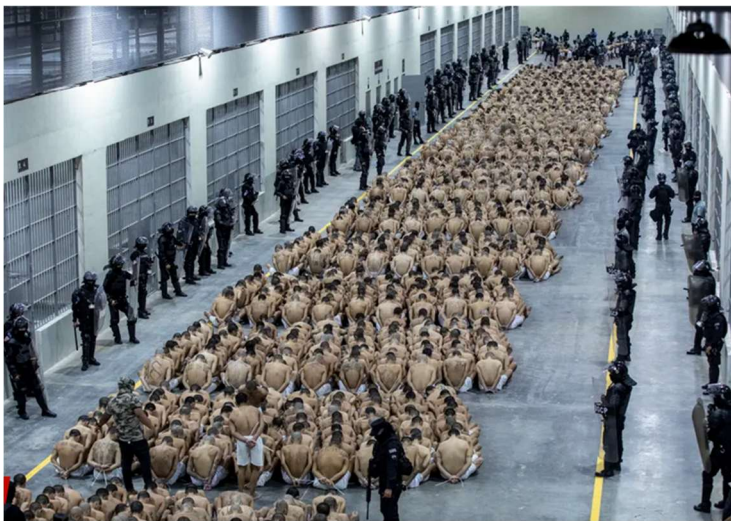
"We ended catch [and] release, and we have returned ICE to its core mission, which is arresting people who violate our immigration law," said acting ICE Director Todd Lyons. "Secretary Noem and I are changing the culture of ICE to one of action and accountability."

First 250+ migrant gang members from US arrive in El Salvador — where they'll be held in a notorious mega-prison

Terrorism Confinement Center (CECOT), El Salvador.

250 suspected Tren de Aragua and MS-13 gang members, including two ringleaders, were shipped from the US to CECOT by President Trump earlier this month.

The MS-13 motto is "kill, rape, control"



Since Donald Trump returned to office, ICE and CBP have made 113,000 arrests and have deported more than 100,000 illegal immigrants according to the Department of Homeland Security. While liberals stage demonstrations across the nation to protest Trump's "racist attacks on immigrants", the numbers provided by Homeland Security tell the true story of who is being "targeted" in these raids: people who have broken the law and entered the U.S. illegally, including illegals with criminal records.

Amid Trump crackdown, illegal border crossings plunge to levels not seen in decades
CBS News; March 3, 2025

The number of migrants crossing the U.S. southern border illegally in President Trump's first full month in office plunged to a level not seen in at least 25 years, according to preliminary government data obtained by CBS News.

Last month, Border Patrol recorded about 8,450 apprehensions of migrants who crossed into the country unlawfully between official entry points along the U.S.-Mexico border, the statistics show. On some days during a record spike in illegal crossings under the Biden administration, Border Patrol recorded more than 8,000 apprehensions in a single day.

But the liberal news media immediately took issue with the numbers reported by ICE.

New Immigration and Customs Enforcement data shows administration isn't just arresting criminals

NBC News, February 19, 2025

ICE is making more arrests, but critics say some claims don't add up
npr; March 1, 2025

While news outlets reported on “criminal arrests” made, they emphasized the numbers of “collateral arrests”, nonviolent offenders or people who have not committed any criminal offense other than crossing the border illegally. U.S. Immigration law states illegal entry into the U.S. is a “civil penalty” as opposed to a “criminal entry.” Because the Trump administration said they were going to focus on removing criminal illegals first, the liberal media accused them of “targeting” law-abiding migrants and those with permits to stay in the United States. We’re really “splitting hairs” here, because if these illegal immigrants are “law abiding”, they wouldn’t have broken our immigration laws and snuck across the border in the first place.

Democrats in Congress are more interested in protecting the rights of non-citizens, including those with criminal records who entered the U.S. illegally, than they are in protecting the rights and safety of legal U.S. citizens. Democrat cities have passed ordinances to protect illegal immigrants from “mass deportations”, giving rights to and prioritizing illegal immigrants over their taxpaying constituents. The liberal press cries how mass deportation will “tear families apart” and make communities “less safe.”

Progressive left-wing Democrat Congresswoman and “Squad” member Alexandria Ocasio-Cortez hosted a webinar in February 2025 explaining the tactics Immigration and Customs Enforcement (ICE) authorities have been using in New York to arrest illegal immigrants. Her office, and by default, Ocasio-Cortez herself, called ICE raids “political tactics intended to create fear” and gave tips on how to evade arrest. Fellow Squad member Ayanna Pressley called ICE raids “scare tactics, fear, and division, causing harm and terrorizing elders, children, and families in our community.” When Congress voted on the Laken Riley Act in January, fellow Squad member Pramila Jayapal claimed, “In reality, all this bill does is

promote racial profiling and take away due process from those who have been falsely accused or arrested for minor crimes like theft.” New York governor Kathy Hochul stated she has no intentions to “allow” Immigration and Customs Enforcement (ICE) to “just take people off the streets.”

Note: 8 U.S.C. § 1324 explicitly prohibits the transportation and harboring of undocumented immigrants. “Harboring” refers to providing shelter or assistance, thereby aiming to deter activities that undermine the integrity of U.S. immigration policy. This statute of the U.S. Code criminalizes actions taken knowingly to assist illegal entry or provide shelter to individuals lacking legal status. Violators face severe penalties, including significant fines and possible imprisonment, depending on the nature of the offense.

Migrant encounters, drug seizures decline along US-Mexico border, CBP data shows
El Paso Times; March 3, 2025

The encounter levels are at near historic lows as migrants have been blocked from seeking asylum in the U.S. by President Donald Trump... “We have never seen numbers this low,” Adam Isacson, a national security expert at the Washington Office on Latin America, said. “The last time it was close to this low was the first few months of Trump’s first term.”

“There is a 22% less fentanyl seizures in the first four months of this fiscal year when compared to the first four months of fiscal year 2024,” Isacson said. “And overdoses are declining.”

In 2022, 112,582 Americans died as a result of drug overdoses. That number dropped to 110,037 in 2023 and 87,000 for the 12 months ending September 2024. Fentanyl and other synthetic opioids are responsible for approximately 70% of lives lost. Methamphetamine and other synthetic stimulants are responsible for approximately 30% of deaths. The majority of illegal drugs causing these overdoses cross the southern border from Mexico into the United States.

Despite the good news that fewer Americans are dying from overdoses of drugs crossing the southern border due to U.S. and Mexican joint crackdowns on immigration, criminal illegals and drug trafficking, Hollywood progressives joined the fake outrage act. Mia Farrow took to social media to protest the president’s deportation flight of gang members to El Salvador saying, “We have no idea who was sent to that nightmare prison in El Salvador. They were denied a hearing... Lock *him* up.” Other “useful idiots” in Southern California blocked all lanes of U.S. 101 in protest of deportations, causing traffic to back up on the freeway and on downtown surface streets. Other demonstrations were held in cities across the U.S., and businesses closed their doors for “A Day Without Immigrants,” to protest the president’s mass deportation plans and “other attacks on migrants.”

Border Safe Houses See Fewer Trafficking Victims amid Trump Immigration Crackdown
National Review, March 30, 2025

At her safe houses in northwest Mexico, Alma Tucker has seen first-hand the horrors of human trafficking — the teen girls forced to have sex with their smugglers, the victimized boys who suffer in silence, the young migrants made to serve as drug mules.

Tucker's nonprofit, the San Diego-based International Network of Hearts, provides shelter and care for young victims of human trafficking, particularly in Mexico's Baja California region. There was no shortage of victims amid the Biden administration's border chaos.

But things have slowed drastically in recent months, particularly after President Donald Trump resumed office in January... Amid Trump's border crackdown, illegal crossings have plummeted — U.S. Border Patrol agents reported just over 8,300 apprehensions of unlawful border crossers in February, fewer than 300 per day, the lowest number in decades. By comparison, Border Patrol agents stopped at least 130,000 illegal border crossers every February in 2022, 2023, and 2024, according to U.S. Customs and Border Protection data.

During the Biden administration, the 22 beds at Tucker's three safe houses were typically filled with young victims, including kids that traffickers used as props to get adults across the border. In addition to food and shelter, the children they serve receive health care, mental-health therapy, and religious instruction, if they want it, Tucker said.

Under Trump, she said, about half of their shelter beds are empty on a typical night... "Definitely it is better to contain the borders, mainly because organized crime is using these people," Tucker told National Review. "That's my concern, that organized crime is using the need, the desperation of the people trying come for a better life to this country."

Andi Buerger, a sex-trafficking survivor and founder of Voices Against Trafficking, an anti-trafficking information hub, agreed that the slowdown at the border is a positive step.

Progressive Democrats are supposed to be the champions of women and children. Yet in May 2024, Senate Democrats blocked an attempt to pass the *End Child Trafficking Now* bill, sponsored by Republican Senator Marsha Blackburn. The legislation would require DNA testing to determine the relationship between illegal immigrants coming across the border and any accompanying children. Joe Biden ended the Trump administration's policy of "familial DNA testing" in May 2023. During the period this testing was in force, as many as 30% of children tested were found *not* to be related to the illegal immigrants posing as family members. "The Biden administration's decision to halt all DNA familial testing is a grave misstep that not only puts the safety of Americans at risk but also increases the number of migrant children being trafficked" said Senator Blackburn.

<https://www.washingtonexaminer.com/news/223716/dna-tests-reveal-30-of-suspected-fraudulent-migrant-families-were-unrelated/>

On January 3, 2025, Republicans introduced House Resolution #22 (H.R. 22) for consideration. The Safeguard American Voter Eligibility (SAVE) Act would require proof of American citizenship to register an individual to vote in elections for Federal office. The SAVE Act passed the House of Representatives on a partisan vote on April 10th, with 216 Republicans voting Yea and 208 Democrats voting Nay. Only four Democrats voted with the Republicans while 4 Republicans and 1 Democrat declined to vote altogether. This follows a similar vote on the Laken Riley Act in January 2025, in which 159 Democrats voted against the bill which required the U.S. Department of Homeland Security to detain illegal immigrants who have admitted to, been charged with, or convicted of theft-related crimes, assault on a law enforcement officer, or any crime resulting in death or serious bodily injury. (Ref: Addenda #65 Update – January 2025)

But of course, Democrats never really cared about the rights or the safety of the legal American citizens anyway and they especially don't want people to have to show proof of citizenship for *any* elections in this country. That was proven by how hard New York City Democrats fought for legislation they passed in 2021, allowing non-citizen but “legal city residents” to vote in municipal elections. (Ref: Addenda #46 Update – March 2025)

Feds charge Mass. judge with obstruction for aiding undocumented immigrant's escape from ICE

USA Today, April 26, 2019

Federal prosecutors charged a Massachusetts judge with obstruction of justice Thursday, saying she prevented immigration agents from arresting an undocumented immigrant after a state court hearing by allowing him to leave the courthouse through a back door.

District Judge Shelley Richmond Joseph and a court officer, Wesley MacGregor, were charged with allowing the immigrant to leave the courthouse, out of a federal agent's sight, and lying about it later. Jose Medina-Perez, a Dominican national, previously deported from the U.S. in 2003 and 2007, was in court on drug and outstanding warrant charges, when District Judge Joseph allowed Medina-Perez to leave her courtroom through a back door out of the building with MacGregor using his access card to release him out the back door.

Democrat Judge RESIGNS After Federal Agents Arrest Illegal Gang Member With Gun At His Home

Right Edition, April 20, 2025

A longtime Democrat Magistrate Judge in New Mexico suddenly resigned after federal agents arrested a suspected illegal gang member at his home. Joel Cano, who served as judge in Doña Ana County since 2011, turned in his resignation letter just days after federal law enforcement raided his residence and arrested 23-year-old Cristhian Ortega-Lopez.

Cristhian Ortega-Lopez, a Venezuelan national was apprehended by U.S. CBP agents in December 2023 and released due to overcrowding in detention facilities. Cano and his wife allowed Ortega-Lopez to live in a small structure behind their home. An anonymous tip led agents to the home to arrest the reported Tren de Aragua gang member who was found in possession of multiple firearms. Photos from Ortega-Lopez's social media account show him socializing with the couple and passing a long rifle to both Judge Cano and his wife.

Feds bust Wisconsin judge for allegedly helping illegal migrant accused of punching victim 30 times evade ICE agents

New York Post, April 25, 2025

A veteran Wisconsin judge was arrested Friday on charges of helping a Mexican illegal migrant evade Immigration and Customs Enforcement agents in her courtroom.

Judge Hannah Dugan, who has been on the Milwaukee County bench for nearly a decade, is accused of obstruction of justice and concealing Eduardo Flores-Ruiz from arrest following a pre-trial hearing last week.

Flores-Ruiz, a Mexican national who was in the U.S. illegally, was in court facing battery charges stemming from a fight the previous month in which he was accused of punching another person 30 times after being accused of playing music too loudly.

When ICE agents showed up to take Flores-Ruiz into custody, Judge Dugan left the bench to angrily confront the agents in the hallway outside her courtroom after hearing they had a warrant for his arrest. After demanding the agents leave the building, Dugan returned to the courtroom and escorted Flores-Ruiz out a back door exit from the building. Flores-Ruiz was apprehended by agents after a brief chase on foot.

Three Democrat judges who took an oath to uphold the Constitution and laws of the United States, obstructed justice in favor of harboring or aiding the escape of illegal immigrants. Predictably, numerous Democrat politicians came to their defense, accusing the law enforcement of “attacking the judicial system”, “threatening the rule of law” and “weaponizing federal law enforcement.”

Oscar Eduardo Ortega-Anguiano was a Mexican national twice deported from the U.S., with multiple felony charges on his record as well as several convictions for driving without a license, before being involved in an accident in November 2021. Ortega-Anguiano was driving drunk, high, and speeding at nearly 100mph on the 405 freeway in Orange County when he crashed into a car being driven by a young couple, 19-year-olds Anya Varfolomeev and Nicholay Osokin, killing them both as they burned alive. In spring 2022, he was convicted of two counts of gross vehicular manslaughter while intoxicated, and he was sentenced to 10 years in prison. On Easter Sunday 2025, a California parole board notified the parents that they had granted early release to Ortega-Anguiano after serving just three years of his ten-year sentence. ICE immediately issued a detainer with the California Department of Corrections upon his release, but the state’s sanctuary laws often result in noncompliance with ICE detainers.

Then, there is the case of Kilmar Abrego Garcia, a citizen of El Salvador who immigrated legally to the U.S. in 2011 to escape “gang threats.” An immigration judge granted “withholding of removal” status to Garcia in 2019, allowing him to live and work legally in the U.S. At that hearing, Abrego Garcia was accused of being an MS-13 gang member by Prince George’s County Police. In 2021, Garcia’s wife filed an order of protection against him alleging that he had physically attacked her on multiple occasions. Then in 2022, Garcia was stopped by the Tennessee Highway Patrol for speeding and veering out of his lane. The vehicle contained eight other individuals, none of which had any luggage, but all told the officer they were travelling from Texas to Garcias home in Maryland leading the patrolman to suspect this was a human trafficking incident. When asked what relationship he had with the registered owner of the vehicle, Abrego Garcia replied that the owner of the vehicle is his boss, and that he worked in construction. Abrego Garcia was given a citation for driving with an expired license and allowed to go.

In April 2025, Abrego Garcia was deported to El Salvador due to an administrative error. A lawsuit filed by Garcias wife resulted in a judge issuing an order to bring Garcia back to the U.S. The Supreme Court subsequently ruled that the district court order was unlawful and the Trump administration cannot be ordered to bring him back to the U.S. However, the Court did rule that the Trump administration violated the 2019 withholding of removal order and directed the administration to “facilitate” Garcias return to the U.S. It did not order the administration to do so, and the El Salvador government has said they have no intention of sending Garcia back. The Department of Homeland Security has repeatedly maintained that Abrego Garcia is an MS-13 gang member, sharing records to back up their claim.

Five Democrat members of Congress have traveled to El Salvador in the past several weeks, demanding the return of Abrego Garcia to the U.S. Lawmakers sent a letter to Secretary of State Marco Rubio "demanding daily proof of life" for Abrego Garcia, that he has access to counsel and that he is returned back to the U.S.

Democrats showed no interest, however, in the rights of Aiden Clark, Elmer Nahum Miranda-Martinez, Melissa Powell, Riordan Powell, Jeremy Poou Caceres, Denisse Oleas-Arancibia, Ruby Garcia, Jocelyn Nungaray, Patricia Portillo, Brayan Alexis Godoy, Fraime Ubaldo, Marangely Moreno-Santiago, Evangeline Ubaldo-Moreno, Sebastian Ubaldo-Moreno, Rachel Morin, Laken Riley and hundreds of others who have been murdered or killed by illegal immigrants over the past decade.

ICE arrests Guatemalan alien charged with girlfriend's murder; uncle, an illegal alien, charged with accessory

April 22, 2025 - Keycy Robinson Alexis Barrera-Rosa, a 23-year-old Guatemalan national in the U.S. illegally, was arrested for the murder of his girlfriend.

Illegal migrants with long rap sheets arrested in LA murder of family man who tried to stop catalytic converter theft

February 25, 2025 – Two illegal immigrants killed a “good Samaritan” who was trying to stop them from stealing his neighbor’s catalytic converter. Wilber Alberto Rabanales, a Guatemalan national, has been arrested at least 15 times in the last few years in the county, predominantly on gun charges, grand theft, burglary and drug charges. Jose Christian Saravia Sanchez has been arrested at least a dozen times, mostly for grand theft, gun charges, drugs, burglary, kidnapping, possession of meth and possession of burglary tools. Inglewood resident Juan Miguel Sanchez, 48, left behind a wife and two sons.

Alleged illegal migrant dad accused of beating baby to death: 'He did not respect or want that baby'

March 13, 2025 - Marlon Rabanales-Pretzantzin, a 20 year old Guatemalan national who crossed the border illegally in 2022, was arrested and charged with second-degree murder in the death of his infant daughter. Police said the child had abrasions and broken bones, including a fractured vertebrae in the neck.

Addenda #63 (September 2024) Update – April 2025

Re: Ch. 8, 050 Net-Zero Emissions; Impossible!

SDG 7 – Ensure access to affordable, reliable, sustainable and modern energy for all

In Addenda 63, September 2024, I wrote about the Office of Renewable Energy Siting (ORES) permitting process for granting siting permits for the large-scale renewable energy projects that would be required to satisfy the renewable energy mandates in the *Climate Leadership and Community Protection Act* (CLCPA) of 2019. I noted that New Yorks progress on renewable energy was not on track to meet the CLCPA goals for emissions or renewable energy generation sources and as a result, Governor Hochul changed the rules of the game to speed up the review and permitting process.

The 2025 state budget included a proposal called the *Renewable Action Through Project Interconnection and Deployment Act* (RAPID), which transferred authority for granting permits for large-scale renewable projects from local towns to state agencies which are aligned with the governor's climate policies. The state has committed to an emission-free electric grid by 2040 and 70% renewable sourced electricity generation by 2030.

RAPID ACT: Bill streamlining transmission line buildout leaves rural NY uneasy
CBS 6 Albany NY, April 18, 2024

New York lawmakers have begun passing parts of the state's late budget, but one bill included in the final deal is leaving some rural communities on edge.

The RAPID Act... will streamline the approval process for transmission lines to connect renewable energy sources to the grid.

But many in rural communities, where renewable energy projects are mostly being built, want state lawmakers to pump the brakes on the RAPID Act.

They fear the measure gives the state the power to override local laws.

Local governments were right to fear the results of the RAPID Act.

Onondaga County's first wind farm stirs controversy: Who has power over giant turbines?
syracuse.com; May 4, 2025

Tully, NY – An out-of-state company wants to build Onondaga County's first wind farm, putting about two dozen turbines taller than the Washington Monument across the hills of Tully, Lafayette and Otisco.

Palmer Capital, a Boston based renewable energy developer, submitted plans for the project to the Department of Public Service for a siting permit at the beginning of April, and is actively working to secure leases with landowners for use of their properties for the turbines and transmission lines. The project is all but assured to sail through the state's new "expedited review process" and be granted approval by the Democrat led Public Service Commission. Since taking over siting approvals in 2024, the Office of Renewable Energy Siting and Electric Transmission (ORES) has approved two wind applications and denied none statewide.

The wind farm, dubbed *Maple Harvest*, will generate about 150 megawatts when operational, enough to power “about 58,000 homes” according to the developer. The New York State Energy Research and Development Authority (NYSERDA) published a resource document for developers of wind projects titled, *New York Wind Energy Guide for Local Decision Makers: Wind Energy Basics*. In this publication, NYSERDA notes the following fact: “Because wind is a variable resource with changing speeds, power production levels can vary... Capacity factors of wind plants may vary from 20% to 50% depending on the turbine type, location, and wind regime.”

Wind turbines have a nameplate, or rated capacity, the amount of electricity the turbine could produce if it ran 100% of the time at optimal wind speeds. If the 25 turbines at the *Maple Harvest* wind farm operate at the best possible capacity factor of 50%, they will provide only 75 MW of electricity generation, enough to power about 29,000 homes. Not quite what the developer is promoting. In addition to over inflated power generation, this wind farm installation has other factors to consider.

Another factor is the size and weight of the wind turbine base. The GE Vernova 6 MW wind turbine has three 264 foot long carbon fiber reinforced blades, with a rotor diameter of 538 feet and a “hub height” of 545 feet from the ground to the middle of the rotor. A wind turbine of this height and blade size would require large concrete foundations up to 60 feet thick, 250 feet or more in diameter, containing as much as 900 cubic yards of concrete.

Landowners complain that the 600-foot high wind turbines will be located literally in their back yards, towering over their homes. The reasons being cited for the protest are mudslides and water. Tully Valley was the site of a large mudslide in 1993, which destroyed several homes and covered a 1,500 foot section of Tully Farms Road with mud up to 15 feet deep. Three homes were destroyed and three people had to be rescued by helicopter, but fortunately there were no serious injuries or fatalities. It took several months to clear and repair the road.

That year’s record snowfall, subsequent snow melt and rainy spring weather plus the unique geological conditions led to the event, according to William Kappel, a hydrologist with the U.S. Geological Survey, who examined the scene. A layer of clay sits below soil and gravel on the mountain's slope, and when the soil became saturated with water, the extra weight caused the clay to squirt out and flow down the mountain in a matter of seconds. A forty-foot deep crater was left in the side of the mountain at the top of the mudslide. Homeowners are concerned that four giant wind turbines which will be built on top of the same mountain, a known landslide zone, and other mountains in the surrounding areas. “... add rain and snow-packed runoff and vibration and that aggravates and increases the probability of landslides,” one neighbor said.

A 900 cubic yard reinforced concrete base would weigh more than 40 tons, constructed on top of a known landslide zone.

The last factor to consider ironically, is the canceling effect of zero emission “green energy” produced by the Maple Harvest wind farm against the concrete used in the bases of the 25 wind turbines. Cement in concrete continues to “cure” over its lifetime, generating a lot of CO₂, exactly what renewable energy sources are promoted as preventing! In fact, cement is the source of about 8% of the world’s CO₂ emissions according to a 2018 study.

Even as the developer is signing leases with landowners for use of their properties for the turbines and transmission lines, other residents and town leaders are mobilizing to fight the project. But they are fighting a battle they can never win thanks to Governor Hochul’s RAPID Act. As Marguerite Wells, the executive director of the Alliance for Clean Energy noted, “There has to be a reason other than ‘we don’t like it’ and ‘can’t you put it somewhere else.’” Governor Hochul’s executive actions have severely impacted the rights of landowners and communities in favor of pursuing unachievable climate goals. Twenty-three contracts were awarded in December 2024 alone, for large-scale renewable energy projects across New York state, including four in Central New York (Cayuga and Oswego counties) and five in the Finger Lakes region.

The final question asked is: What will happen at the end of the project’s lifespan? This is addressed on the Maple Harvest Wind Farm fact page of the developers website.

What will happen at the end of the project’s lifespan?

Typically, wind turbines have a lifespan of 25-30 years before they must be repowered or decommissioned; both of which are processes that the project owner is responsible for completing.

Repowering the turbines means replacing major turbine equipment to prolong the facility's operations. The scope of these replacements could be as minor as individual blades or gearboxes, or as extensive as replacing the entire turbine and foundation. Decommissioning the project includes dismantling and removal of facility components to 3-4' below grade and restoring the surrounding land. A decommissioning plan will be included in the project's permit application. For more information on this process, the Office of Energy Efficiency & Renewable Energy has a helpful [Wind Energy End of Service Guide](#).

The project will provide financial assurance to cover the cost, plus contingency, of decommissioning the project. The value of the assurance will be reviewed regularly throughout the project’s operations to ensure it’s sufficient as market conditions change.

It is not clear at this time which approach the developer will take 25 or 30 years from now; repowering or decommissioning. If the former, that 75 MW generation capacity will be reduced as turbines are refurbished. If the latter, New York states electrical grid will lose a source of renewable energy just as electrification of New York has theoretically been completed, adding to the potential instability of the electric grid.

Addenda #45 – May 2024, Update May 2025

Re: Ch. 9, Progressive States Climate Policies

SDG 7 - Ensure access to affordable, reliable, sustainable and modern energy for all

National Grid seeks whopping double-digit rate hikes for electricity and gas

Syracuse.com; 5/28/2024

National Grid today asked state regulators for king-size rate increases that would boost Upstate energy bills for households by 15% for electricity and 20% for natural gas. The proposal would add \$440 a year to the bill for a typical household using both electricity and gas.

The requested increases, which would take effect next year if the Public Service Commission approves them, far exceed anything the utility has asked for in recent decades.

But National Grid's proposal today follows a similar pattern of unprecedented, double-digit rate hikes sought by other New York utilities in recent months, including big rate hikes sought by National Grid's downstate natural gas businesses.

National Grid provides electricity to 1.7 million customers and natural gas to 640,000 customers in upstate New York. In order to meet the requirements for CO₂ emissions reductions, 70% renewable energy by the year 2030 (70x30 Plan) and the overall zero carbon emissions by 2040 plan mandated by New York state, National Grid (and all other NY utility companies) began a systematic upgrade of its distribution and transmission system in 2021. Phase One of the LT&D (Local Transmission and Distribution) Plan would create a system to carry the increased electrical loads to points of distribution to local substations. National Grid identified 18 projects that had to be completed by 2030, to carry the increased loads required within its service areas. The combined costs of these projects were estimated at \$1.422 billion in 2020, but the actual cost for completion has risen substantially following the pandemic supply chain disruption and ensuing increases in materials and labor.

Source: Initial Report on the New York Power Grid Study, January 19, 2021

In May 2024, National Grid requested a 15% rate increase for residential electricity billing and a 20% rate increase for residential natural gas billing. The proposal was estimated to add \$440 per year to the bill of a typical household using both electricity and gas. There was immediate push back from the public, especially since 16% of Upstate residential customers and 7% of commercial customers were more than 60 days behind in paying their utility bills. And there was the usual election year noise from politicians, “vilifying” the utility, claiming corporate greed and calling the rate increase “outrageous and unfair” to their constituents.

Regulators approved the 3-year phased in 20% rate increase in April 2025, starting in September. By the third year of the deal, an average residential customer would pay \$50 a month more than today for electricity and gas, or an additional \$600 a year. The deal still has to be approved by the Public Service Commission later this summer.

National Grid deal would hike NY electric and gas rates by 20% over 3 years

syracuse.com, April 29, 2025

Addenda #80 – May 2025

Re: Ch. 8, 050 Net-Zero Emissions; Impossible!

SDG 7 - Ensure access to affordable, reliable, sustainable and modern energy for all

Net zero blamed for Europe's biggest power cut

Experts say a reliance on solar and wind power left Spain and Portugal vulnerable

The Telegraph; April 28, 2025

A reliance on net zero energy left Spain and Portugal vulnerable to the mass blackouts engulfing the region, experts said on Monday night.

In what is believed to be Europe's largest power cut, tens of millions of people were left without electricity, while flights were grounded, trains halted and whole cities left without power, internet access or other vital services.

The cause of the initial fault in the region's electricity grid is still being investigated, and the EU has insisted that there were no indications that it was a cyber attack.

However, energy experts have blamed a heavy reliance on solar and wind farms in Spain for leaving the region's power grid vulnerable to such a crisis.

Spain declares state of emergency after nationwide power blackout

Reuters; April 28, 2025

Spain's Interior Ministry on Monday declared a state of emergency after a nationwide power blackout hit most of the Iberian Peninsula.

The ministry added the emergency status will be applied in the regions that request it. So far, Madrid, Andalusia and Extremadura have asked for the central government to take over public order and other functions.

At 12:55 PM, Monday April 28, a massive power blackout hit Spain, Portugal and part of southern France, leaving millions of people and businesses without electric power. People lined up at shops, seeking to make cash purchases of emergency supplies like gaslights, generators and batteries. The power loss stopped subways (metros) and trains from operating. Airports closed, mobile phone networks were affected, and card payment machines were down. Elevators in buildings and apartments stopped working, traffic lights did not work, causing massive traffic jams and collisions. Authorities urged residents to limit activities and stay off the roads. Businesses had no electricity and were forced to close. Utilities were forced to activate emergency measures to restore electricity to some parts of Spain, including switching hydroelectric plants across the country back on and importing (reliable) power from neighboring countries unaffected by the blackout.

It wasn't until 11:15 PM on Tuesday, almost 23 hours after the grid went down, that officials declared it was back to normal. There have been various theories on what caused the outage, including a rare phenomenon called "induced atmosphere vibration," which caused "anomalous oscillations" in the high-voltage lines of Spain's energy grid. This claim was later refuted by utility officials.

What is known, is that before the sudden outage, the grid was being powered by 61% solar, 12% wind and 12% nuclear generation. At 12:33 PM, 15 gigawatts of electricity, equal to 60% of Spain's power generation, suddenly disappeared from the grid. In the Telegraph article, several industry experts talked about the fragility of the electrical grid in general and noted that if the grid is "less stable", electrical frequency can change quickly, leading to "cascading failures." It seems pretty logical to me that this is exactly what happened in Spain on that Monday morning.

Ironically, the system failure and blackout came just six days after Red Eléctrica boasted of finally hitting its "first weekday of 100% renewable power" on its national grid. The fact that renewable energy completely powered the grid for only *several minutes* didn't matter. Note: Red Eléctrica is the system operator for Spain's electrical grid. According to Red Eléctrica's website, "true renewable" sources (wind and solar) produced 43% of all electricity generated in Spain in 2024. Hydro produced another 10%, so 53% of all electricity produced was from unreliable and/or intermittent "low-carbon sources." Nuclear, biofuels and other renewable sources accounted for an additional 24% of all electricity generated, so Red Eléctrica proudly proclaimed *"77% of Spain's electricity was generated from low-carbon sources in 2024, well above the global average of 41%."*

Spain's goal is to achieve 81% renewable energy by 2030 and 100% by 2050. In order to do this, they must add an additional 157.286 TWh or 157,286 GWh (Gigawatt hours) of renewable generation sources over the next six years. Red Eléctrica proudly proclaimed on their website that *"The growth in installed capacity from renewable energy generation, along with favourable weather conditions in 2024, led to a 35.5% increase in hydroelectric electricity generation compared to 2023. Additionally, solar photovoltaic energy saw an 18.9% increase, setting a new record for the sixth consecutive year."*

My observations from this statement are as follows.

First, they used the term "favourable weather conditions" meaning the weather is not always favorable for maximum generation from solar and wind. Any increase (or decrease) in renewable generation then, is not guaranteed, reliable generation promoted by U.N. SDG 7.

Second, was the boast that hydroelectric generation increased by 35.5% year-over-year. There are more than 800 hydroelectric plants of different sizes in Spain, providing 34,912 GWh (13.3%) of electricity generation in 2024. But this was the most hydroelectric power produced in the last six years, due to record rainfall that year. Red Eléctrica's electricity system report for 2024 states, *"Hydro generation in Spain is highly variable, reaching over 40,000 GWh in wet years, while this volume is reduced by more than half in dry years."* In 2022, generation from Spain's hydroelectric sources was 17,911 GWh, just 51% of what was generated in 2024. And there is little ability to add additional hydroelectric generation in the country. Hydroelectric generation then, is not guaranteed, reliable generation promoted by U.N. SDG 7.

Third, wind power provided 23.2% of all electricity generation in 2024 from 1,345 wind farms around the country. But wind generation is also subject to *favourable weather conditions*. A 2020 study published by Science Direct titled, *The annual cycle and intra-annual variability of the global wind power distribution estimated by the system of wind speed distributions* stated, “The intermittent nature of wind energy is a major challenge transforming the energy sector from fossil fuels to renewables. Depending on the location, results from previous studies show that the availability of wind energy can strongly vary over a year.” Wind generation then, is not guaranteed, reliable generation promoted by U.N. SDG 7.

Spain is facing a public backlash over the proliferation of wind farms, their size and indirect impacts on issues like recycling and reclamation. Local residents and environmental groups have filed hundreds of lawsuits, and a number of provinces have imposed moratoria on new wind projects. One third of Spain’s wind turbines will have to be decommissioned and replaced within the next five years as they reach the end of their useful lifespan of 20-25 years. That results in around 7,500 wind turbines that will need to be removed from service, recycled or scrapped and then replaced at a cost of several billion euros. The remaining 15,000 wind turbines will have to be replaced at some later date, in a never ending cycle of build, use and replace.

Fourth, solar generation increased to 25% of total electricity generation in 2024. But in order to reach those renewable generation target goals, solar generation will have to increase dramatically over the next six years. In doing so, thousands of acres of forests, farms and woodlands will have to be converted to large-scale solar. While developers argue that their projects will reduce CO2 emissions, they’re cutting down trees which are an effective carbon removal tool in order to install solar farms. As with wind turbines, the “useful lifespan” of solar panels is between 25 and 30 years. Solar panels slowly degrade and produce less and less electricity over time and then have to be replaced, a never ending cycle as with turbines.

To summarize, unreliable and intermittent renewable electricity generation increased 11% in 2024, compared with 2023, generating 56% of all electricity produced. Reliable fossil fuel electricity generation decreased 24% in 2024, compared with 2023.

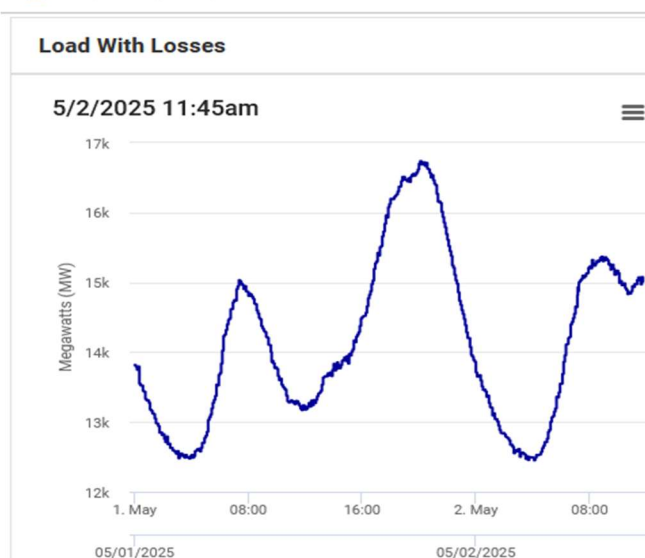
While the total *installed capacity* of renewables represents 64% of Spain's total generating capacity, renewable sources generated 56% of all electricity produced in 2024, showing that total installed capacity does not equal total actual generation.

The anticipated increase in renewable power generation and the decline in output from fossil fuels is expected to result in nearly 77% of Spain's electricity production being emissions-free in 2024. Although Spain already has the second largest *projected* capacity for stand-alone back up batteries at an advanced stage of development in the world, it will need much, much more to avoid a repeat of this incident in the future.

In Addenda #44 – April 2024, I detailed how electrical grids must always be in balance, the amount of electricity consumed must be equal to the amount being produced. If too little electricity is fed into the grid to meet the demand, the frequency of the power supply will fall. A sudden change of as little as 1% above or below the standard 50 hertz of Spain’s grid frequency, risks damaging equipment and infrastructure if it persists. The balancing authority, in this case Red Eléctrica, must continually call on power plants to come online to produce additional electricity as the demand increases and ask them to stop producing electricity as the demand decreases.

This process is easily achieved as natural gas, fuel oil and hydro plant turbines can ramp up and down quickly. Nuclear plant steam turbines can also ramp up power but must change power levels more slowly. Only fossil fuel powered plants can act quickly to bring the electrical grid into balance.

Solar and wind generation is dependent on the availability of sunlight and wind, which fluctuate during the day. (Ref: Addenda #74 – February 2025 [Part 1]) The Balancing Authority has no control over when and how much power is available from solar or wind farms. Any fluctuation must be corrected almost immediately, or generation sources automatically shut down, causing a blackout. This, is exactly what occurred in Spain on April 28. The sudden loss of power generation from one power plant led to “cascading failures”, taking down one plant after another, and leaving Spain, Portugal and part of France in the dark.



This is the picture of electricity consumption in New York state on May 1st and 2nd, 2025.

Our temperatures are similar to those in Madrid, Spain, with temperature fluctuations from mid-40’s morning lows to low 70’s late afternoon highs.

The NY ISO dashboard shows that electricity consumption increased 26% over a 3-hour period on Thursday the 1st as people were waking and getting ready for the new workday. Consumption increased 27% over a 8-hour period in the afternoon and early evening before decreasing again as people ended their day and went to bed.

That 26% increase in load Thursday morning, *before* the sun was providing “peak sun” generation capability, on a partly cloudy day, with wind speed reaching only 4.9 mph, would have caused the same grid instability in New York state that it did in Spain. The only difference between Spain and New York state is the percentage of electricity being provided by unreliable, renewable generation sources.

Electricity generation provided by Red Eléctrica showed that more than one-half (53%) of all electricity produced for use in Spain, was generated from unreliable “low-carbon sources.” When those sources were not capable of responding to the increased demand for electricity during those morning hours on April 28, the electrical grid became unstable, and the system crashed.

When the increased demand for electricity occurred on March 1st in New York, fossil fuel power plants were able to “ramp up” generation of electricity almost immediately, with the states three nuclear power plants lagging shortly afterwards. Any remaining shortfall was filled by the transmission from out of state sources.

New York state Electricity Profile, February 2025

Source: U.S. Energy Information Agency [eia] Electricity Data Browser

Solar & Wind	1,149 MWh	9.71%
Hydroelectric	2,276 MWh	19.24%
other Renewables	54 MWh	0.46%
All "True Renewables"	3,479 MWh	29.40%
Nuclear	2,426 MWh	20.50%
Renewables including Nuclear	5,905	49.90%
Natural Gas	5,384 MWh	45.50%
Fuel Oils	544 MWh	4.60%
All Fossil Fuels	5,928	50.10%
Total Generation	11,832 MWh	78.88%
Current Demand [5/2/2025]	15,000 MWh	
Imports from other states	3,168 MWh	21.12%

The New York Independent System Operator (Balancing Authority) has the ability to fill the additional demand for electricity in order to maintain “grid stability”, because unreliable renewable generation sources produce only 30% of all electricity consumed by New Yorkers. We haven’t reached the “tipping point” yet where this is no longer possible. But as the NYISO 2024 Power Trends report states; *The successful transition of the electrical grid depends on the careful balance of reliable energy supply with the forecasted increase in demand... Increased demand in both summer and winter, planned [fossil fuel]*

generator retirements, and the availability limitations of non-firm gas during winter could all contribute to a statewide resource adequacy shortfall.

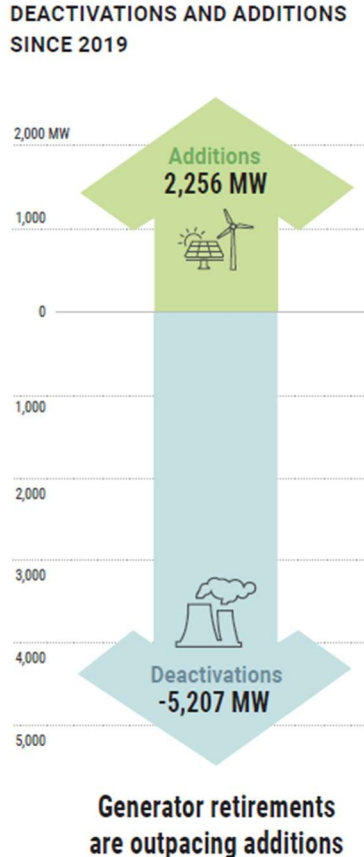
Extensive transmission investments will be necessary to deliver renewable energy to customers and address new constraints that appear across the electrical system resulting from significant new resource additions.

“Extensive investments will be necessary” to avoid a blackout like Spain, Portugal and France experienced on April 28, 2025. Our utility bills are increasing at double digit rates, in order to fund electric grid upgrades. The cost of doing business in New York (and other states) is increasing, to fund the building of renewable energy projects through the CO₂ emissions allowances they must purchase.

NYISO has been warning about a pending “statewide resource adequacy shortfall” since the publication of the *2021 Comprehensive Reliability Plan* and each year the warnings become more urgent. The NYISO warned in 2021 that reliability margins in New York City “could become deficient in 2025”. A follow up report in 2023 estimated a deficiency as great as 446 megawatts, that could last for up to nine hours, resulting in power outages for extended periods of time on days when electricity demands are at their highest.

Think of a 90-degree afternoon in the city in July...

Now think of all those high rises with no electricity, no lights, no air conditioning...



Addenda #81 – June 2025

Re: Ch. 8, 050 Net-Zero Emissions; Impossible!

SDG 7 - Ensure access to affordable, reliable, sustainable and modern energy for all

- *Renewable Power Sources are NOT reliable*
- *The U.S. Power Grid*

Kill Switches Secretly Installed In Solar Panels

Cyber Security Intelligence; May 19, 2025

<https://www.cybersecurityintelligence.com/blog/kill-switches-secretly-installed-in-solar-panels-8439.html>

Chinese “kill switches” have been discovered hidden in American solar farms, triggering urgent warnings over US national energy security and prompting calls to suspend the deployment of renewable energy generation in the UK.

The kill switches, identified as cellular radios, are embedded within power inverters manufactured by Chinese companies and sold to US power generators

Solar power inverters are electronic devices that take the direct current (DC) voltage produced by solar panels and convert it into alternating current (AC) voltage for transmission to our electrical grid. Five of the largest solar power inverter manufacturers are Chinese companies, responsible for 35% of all inverter sales in the U.S.

In 2024, utility-scale solar power generated 218.5 terawatt-hours (TWh) in the United States, or 5% of all utility-scale electricity generated. With the push for renewable energy generation to meet state mandated clean energy goals continuing to ramp up, this percentage will only increase in future years. As we become more dependent on solar power and solar power inverters.

A “kill switch” is a device used to shut down equipment manually in an emergency situation, most commonly referred to as an emergency stop or E-stop. The devices that have been found in imported solar power inverters can be activated remotely by wireless signal, disconnecting generation from the electric grid, which could destabilize power grids, damage distribution equipment and trigger widespread blackouts.

(Ref: Addenda 80, May 2025; Net Zero Blamed for Europe’s biggest power cut)

Ever since Xi Jinping became the leader of China, he has had a long-term plan to challenge America’s global leadership and become the economic and manufacturing leader of the world. Our leaders have been warning about China’s threat to the U.S. for years now. In April 2024, FBI Director Christopher Wray warned national security and intelligence experts at the Vanderbilt Summit on Modern Conflict and Emerging Threats, that risks the government of China poses to U.S. national and economic security are “upon us now”—and that U.S. critical infrastructure is a prime target. “The PRC [People’s Republic of China] has made it clear that it considers every sector that makes our society run as fair game in its bid to dominate on the world stage, and that its plan is to land low blows against civilian infrastructure to try to induce panic and break America’s will to resist,” Wray said.

The panic and confusion that followed the grid shutdown in Spain and Portugal on April 28, 2025, is an example of what would happen here in the United States, if those kill switches were triggered. With entire regions interconnected on shared electrical grids, the outcome would be far worse with multiple states and large industrial manufacturing affected for days or possibly longer. Example.

In 2021, the federal government had to issue an emergency declaration after a cyber-attack on a major U.S. pipeline shut down transport of oil across the eastern coast. The Colonial Pipeline, the country's largest oil pipeline in the U.S. at 5,500 miles, carries 3 million barrels of fuel per day over thirteen states between Texas and New York. The attack on its computer equipment forced the company to shut down operations for most of the week, causing fuel shortages at gas stations, resulting in "panic buying" by motorists in six states. In this case, the cyberattack was in the form of "ransomware" by a Russian hacker group that demanded \$4.4 million ransom to restore the system to operation. In the case of Chinese kill switches, the reason would not be payment to restore the solar generation, but to destroy it and throw the country into chaos.

Our country's energy infrastructure is very vulnerable to a number of threats. Physical attacks by terrorists, vandalism, Electromagnetic Pulse (EMP) as well as cyber-attacks. In April 2013, a group of vandals wielding high-powered rifles shot up the Pacific Gas & Electric Company's Metcalf substation. The attack caused \$15 million in damage, but PG&E was able to shift the electrical load to adjacent substation, avoiding an extended power outage and allowing repairs to be made. In December 2022, a perpetrator or perpetrators shot up two Duke Energy substations in Moore County, North Carolina. The attacks left 45,000 utility customers without electricity for four days, while work crews replaced equipment damaged in the attacks. Businesses and schools were closed, and local officials declared a state of emergency and imposed a 9 p.m. to 5 a.m. curfew to avoid looting.

Many electric substations are located in remote areas with no permanent staff and have little security. If terrorists, domestic or foreign, simultaneously attacked enough substations, the result would be a regional blackout. Since the pandemic, supply shortages have led to long lead times on high voltage distribution equipment as well as significantly higher prices. Most high voltage utility transformers are manufactured in China (remember those kill switches?) and lead times from placement of order to delivery are between 120 and 210 weeks. Imagine being without electricity for a year in the middle of a hot summer, or a cold winter, while your cooling and heating depend on that electricity because of government mandates...

Only days after the U.S. identified kill switches in solar farm inverters, power companies found "unlisted parts" on East Asian circuit boards meant to be installed in Denmark's green power grid. This is an issue that will not go away, as long as we are dependent on foreign countries to supply parts for our critical infrastructure.

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Addenda #69 – November 2024, Update – June 2025

Re: Ch. 9, Progressive States Climate Policies

SDG 13 – Take urgent action to combat climate change and its impacts

Governor Newsom signs legislation to prevent gas price spikes and save Californians Money.

New measure will help prevent price spikes that cost Californians upwards of \$2 billion last year, giving the state more tools to require that petroleum refiners backfill supplies and plan ahead for maintenance.

Office of Governor Gavin Newsom Press Release, October 14, 2024

In Addenda #69, I detailed California Assembly bill ABX2-1: *Energy: transportation fuels: inventories: turnaround and maintenance*. The bill was applauded by the left-of-center group *Consumer Watchdog*, who called it “a critical consumer victory...”

California Attorney General Rob Bonta (Dem) said, “Californians have been paying too much for gas... Today, we protect hard working Californians...”

Governor Gavin Newsom (Dem) said, “Price spikes have cost Californians billions of dollars over the years... we’re taking action to prevent these price spikes and save consumers money at the pump...”

Californians pay the highest gasoline prices in the continental United States, and this is due to two simple facts. First, California has its own specific blend of fuel, to emit fewer greenhouse gases when it is burned. No other state in the country makes or uses this blend of gasoline, which adds \$0.10 to the cost of every gallon sold in the state. Second, California also imposes some of the highest taxes on gasoline in the country, with sales and excise taxes and fees adding \$1.19 to the cost of gasoline sold in the state. Attorney General Bonta and Governor Newsom have attempted to deflect blame for Democrat policies which have driven up the price of gasoline for their constituents, onto those greedy oil companies. The theme of “corporate greed” always plays well with liberals!

In October 2024, there were seven oil companies operating ten refineries in California that produced CARB approved gasoline and diesel fuel, with a combined refining capacity of 1,606,671 barrels per day. Two days after Governor Newsom signed ABX2-1 into law, Phillips 66 announced its intent to cease refining operations and close its Los Angeles refinery, which would take 139,000 barrels per day, or 8.6% of the state’s refining capacity permanently offline. The company recently announced that it would lay off most of the workers at the refinery in December, after winding down operations in October. The facility has about 600 employees and 300 contractors. Over half of the employees are high wage, hourly workers represented by the United Steelworkers Union.

On April 16, 2025, Valero Energy announced that it would cease operations at its Benicia refinery, which would take another 145,000 barrels per day, or 9% of the state’s refining capacity permanently offline by the end of April 2026. The statement also noted that it is

considering “strategic alternatives” for its Wilmington refinery, which has a capacity of 85,000 barrels per day, or 5.3% of the state’s refining capacity. The Benicia refinery employs over 400 workers and is supported by numerous contractors in its operations. Benicia has a population of 26,400 and relies heavily on the Valero refinery for employment and revenues. “It would be a major hit on the city”, stated mayor Mario Guiliani.

But it’s not just Benicia that will suffer. The closures of the Phillips 66 and Valero Energy refineries will permanently remove 284,000 barrels per day, almost 18% of the state’s refining capacity permanently offline by the end of the year, with no way to easily replace the specially blended fuels mandated by the California Air Resources Board (CARB).

The Benicia announcement brought a quick reaction from state officials. Governor Gavin Newsom urged regulators at the California Energy Commission (CEC) to “work closely with refiners” to make sure Californians have access to transport fuels. He has ordered them to recommend by July, any changes to California's approach that are needed to ensure adequate fuel supply during its energy transition. "I can assure you, beginning last night we had all hands and we're in the process of addressing any anxiety that may be created or any market disruption that may be created by that announcement," reassured Newsom. The anxiety was created by YOU Governor Newsom, when you signed that bill into law six months ago.

The obvious change would be to pass legislation to override the *Energy: transportation fuels: inventories: turnaround and maintenance* bill. Funny thing about free market capitalism... when consumers don’t like how a company does business, they can decide not to patronize that company. (Remember the Bud Lite “pro-trans influencer” campaign and Target “PRIDE” themed children’s clothing boycotts in 2023?) When a company doesn’t like how government is treating them, they can decide not to do business in that location! California has been working toward eliminating fossil fuels for two decades, through stricter environmental and regulatory policies, but apparently no one ever thought the oil companies would push back against their attempts to put them out of business.

House Rep. Vince Fong (Rep) was more direct in his criticism. "This is something that is not created by the market. This is something that is directly caused by Gavin Newsom's poor energy policies."

"Not only did I warn the governor, but the governor of Arizona and the governor of Nevada... they both warned the governor, bipartisan concern, that this was going to lead to shortages and this was going to cause refinery closures along with higher gasoline prices, job losses and not enough energy to power or attract new businesses to the state."

Fong went on to state, “We actually have to begin to reevaluate our entire energy policy of the state, remove the obstacles, remove the mandates, the restrictions and the barriers that are holding us back and provide the incentives and investments to not only build more energy infrastructure but to expand our energy production."

Two weeks before Valero announced the closure of its Benicia refinery, Chevron announced it would lay off 600 employees at its San Ramon corporate headquarters. The layoffs followed last year's announcement that the company would relocate its headquarters, which employs 2,000 workers, to Houston, Texas, over the next five years. Chevron also operates one refinery in San Francisco Bay, which has a capacity of 245,271 barrels per day, or 15.2% of the state's refining capacity, and the 240,000 barrel, 2,900 acre Richmond refinery employs more than 1,200 workers and numerous contractors that support its operations.

Cause and Effect... Progressive Democrat politicians have made California an unfriendly state to do business in, especially if you're in the oil business. At the same time, those same legislators have made California a "safe haven" for criminals, homeless people and illegal immigrants. The state faces a \$12 billion deficit in the 2026 fiscal year, due to state Democrats voting to allow more than 700,000 illegal immigrants to receive free health care in 2023. That plan, part of Democrats goal of eventually providing universal health care to *all* of its 39 million residents, blew up in the governors face costing \$2.7 billion more than anticipated (surprise!?) and resulting in a \$6.2 billion shortfall in the states Medicaid (Medi-Cal) insurance program.

More than 239,500 residents left the Golden State between 2023 and 2024, more than any other state across the country according to Census Bureau data. The states population dropped by more than 500,000 between April 2020 and July 2022 as well. Between the exodus of affluent residents and corporations, tax revenue plunged by hundreds of millions of dollars, and the state budget went from a record \$97.5 billion surplus to a \$56 billion deficit in just one year. At the same time, Gavin Newsom, who had been viewed as a potential 2026 presidential candidate, opened the floodgates for illegal immigration and signed legislation into law reducing penalties on criminals and making it almost impossible to remove the homeless from public streets.

This is Progressive Marxism at its finest. Anti-business and fossil fuel policies mixed in with pro-drug, criminal and illegal immigrant policies. The end result was predictable for anyone other than those in charge or the useful idiots that supported them. If the ultimate goal of Marxism is to destroy capitalism and fundamentally change the structure of society, California Democrats have been doing a damn fine job pushing that agenda forward. Marx and Engels would be very happy at what they have achieved over the past three decades.

Addenda #60 – (August 2024) Update – June 2025

Re: Ch. 11, Vehicle “Electrification” by 2050; Impossible!

SDG 7 - Ensure access to affordable, reliable, sustainable and modern energy for all

Addenda #60 showed that a number of car manufacturers have started rethinking their commitment to vehicle electrification plans, as sales of battery-powered cars were not increasing as fast as anticipated. Although EV sales in the U.S. grew 52% and crossed the one million mark in sales for the first time, they represented just 7.6% of the total 15.6 million light-duty vehicles sold in 2023. America set another record for electric vehicle sales in 2024, as consumers bought 1.3 million EVs. Pro-electric vehicle advocates promoted the “record-breaking surge” in EV sales, but the year-over-year increase was just 7.3%, an enormous drop from the previous year’s 52% growth. The unspoken fact remains that 14.558 million (91.9%) of total sales in 2024 were gas or diesel powered vehicles and 98.6% of all vehicles registered in the U.S. were gas or diesel powered in 2024. ^[1]^[2]

President Bidens 2021 Executive Order 14037 mandated that by 2030, 50% of all passenger cars and light-duty truck sales must be battery electric, plug-in hybrid electric or fuel cell electric vehicles. In 2024, the Biden Environmental Protection Agency announced final standards to further reduce harmful air pollutant emissions from light-duty and medium-duty vehicles starting with model year 2027 and being completely “phased in” by model year 2032. The EPA ruling would effectively force auto manufacturers to produce enough zero-emission, fully electric vehicles, to make up as much as 30 to 56 percent of light-duty sales between 2030 and 2032, to be able to reach the required emissions levels. ^[3]^[4]

The EV Executive Order and the EPA mandate were revoked by President Trump during his inauguration on January 21, 2025. The current “Big Beautiful Bill” making its way through Congress will end tax credits for all new and used EV purchases. These tax credits are the main reason that EV sales were increasing, so the future is looking less positive for electric vehicles and manufacturers. Additional headwinds for EV sales include continued consumer frustration with public charging infrastructure. The 2021 Infrastructure Investment and Jobs Act gave states \$5 billion over a five year period to deploy EV charging infrastructure along the national highway system, public roads and in other public locations. States received an additional \$2.5 billion to allocate towards charging infrastructure as they saw fit.

Due to U.S. Department of Transportation bureaucracy, final rules for the program weren't available until February 2023 and the permitting and approval process was slow and complicated. As of February 2025, just 1,000 projects had been awarded federal grant money through the National Electric Vehicle Infrastructure (NEVI) Formula Program and only 57 charging stations had opened across 15 states. Charging stations that were operational were often unreliable. In the 3rd quarter of 2024, 19% of visits to public chargers resulted in a failed attempt to charge the vehicle, with the lowest-performing charging provider having successfully charging just 58% of the time. ^[5]^[6]

Note: The Trump administration “paused” future NEVI funding in February.

General Motors announced in March that they were investing \$888 million in its Tonawanda Propulsion plant in Western New York, to support the production of the company's sixth generation of small-block V-8 gas engines. GM also announced \$854 million would be allocated to other plants for the same purpose. Previous agreements to invest hundreds of millions of dollars in EV production have now shifted production back toward internal combustion engines. ^[7]

Honda also announced plans in May it will cut back on its previous investment plan for electric vehicle technology in response to its disappointment in the growth of the EV market, even though Honda Global still plans to achieve a goal to "achieve carbon neutrality for all products and corporate activities" by 2050. The cut in investment towards all electric vehicles comes to \$20.558 billion U.S. dollars as Honda now expects global EV sales to fall below its former target of 30%. Instead, Honda plans to invest more money into production of hybrid electric vehicles which combine a conventional internal combustion engine with one or more electric engines, using stored electricity from regenerative braking. ^[8]

Although global EV sales are steadily increasing, U.S. sales have been falling far behind those of Europe and China. Infrastructure for EVs in the U.S. is much less developed than the infrastructure for gas vehicles, which took decades to build, and many consumers are hesitant to purchase EV's due to the limited number of available charging stations. Consumers have also seen the problems EV owners had during extreme weather conditions, when cold weather severely reduced the range of electric batteries and charging during cold weather became problematic. Utility companies are still years away from being able to supply all the electricity required to support the electrification of vehicles, let alone houses and businesses.

Now that government subsidies for electric vehicles appear to be ending, the availability of electric vehicles will be beyond what most consumers can afford. The reduction in selling price due to tax credits were the only reason that many buyers could afford EVs. Even the most enthusiastic middle-income green energy supporters will have a difficult time affording an electric vehicle, especially if auto manufacturers continue to reduce investments in them. Price reduction over time is only achievable when large scale purchasing and production occurs with any product. Until this occurs, electric vehicles will remain a "market niche" with limited production and sales.

Addenda #60 Update Sources

1. Electric Vehicle Sales Jump Higher in Q4, Pushing U.S. Sales to a Record 1.3 Million; Cox Automotive, January 13, 2025
2. Electric Vehicles: 2024 Year in Review, Experian Velocity Statistics, December 2024
3. Ref: A Clear and Present Danger, Threat #2, Chapter 11
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6. Is Public EV Charging Infrastructure Making Progress?, J.D. Power, December 20, 2024
7. GM to invest \$888 million in Tonawanda Propulsion Plant; GM News, May 27, 2025
8. Honda Bucks Trend And Rolls Back EV Plans In Favor Of Hybrids; Forbes, May 20, 2025

Addenda #24 – (November 2023) Update July 2025

Re: Ch. 8, 2050 Net-Zero Emissions; Impossible!!

Global Power Grids

SDG 7 - Ensure access to affordable, reliable, sustainable and modern energy for all

Netherlands rations electricity to ease power grid stresses as it shifts to ‘greener economy’ – ‘Early indicator of what other European countries are likely to suffer’ trying ‘to meet the bloc’s ambitious decarbonisation targets’

Financial Times, July 13, 2025

Country provides early warning for rest of EU if investments in new cables do not keep pace with shift to greener economy

This article noted that more than 11,900 Dutch businesses, including hospitals, schools, and fire stations are waiting for connection to the electrical grid. Thousands of new (electrified) homes are also waiting to be connected, and some areas have warned consumers that the connections will not be possible until the mid-2030’s! The reason... millions of new homes are being modified for or built with rooftop solar panels to provide electricity for heating, cooling and appliances, as well as lighting and power. Reliable power sources; natural gas and coal, have been replaced or banned for use, just as we’re seeing happen here in ‘progressive states’ like California and New York.

The 2019 *Dutch Climate Act* set targeted goals for a 49% reduction in greenhouse gas emissions by 2030 (as compared to 1990 levels), and a 95% reduction by 2050. At the 2022 U.N. Climate Change Conference, also known as COP27, members reaffirmed their commitment to meeting the climate goals of the Paris Climate Accord and stressed the “urgent need” for climate action. The conference also made recommendations to hold member nations accountable for achieving those goals. The Dutch responded by updating the *Climate Act*, mandating a 55% reduction in greenhouse gas (GHG) emissions by 2030, and “climate neutrality” or net-zero emissions by 2050.

CO₂ emissions in 1990 were 162.8 million metric tons (MMT). By 2015 when U.N. member states approved the Paris Climate Accord, emissions were slightly higher at 163.74 MMT. By 2019 when the Climate Act was passed, emissions had been reduced to 152.42 MMT, a decrease of 6.4%. By 2023, when the emissions goals were drastically reduced, GHG emissions had fallen to 118.67 MMT, a decrease of 27%. Since 2016, when the Dutch parliament voted to close all the countries coal-fired power plants and turn away from natural gas, GHG emissions have fallen steadily as fossil fuel power generation has been phased out, falling almost 46% over the seven year period, and the 2030 reduction of 55% is theoretically achievable with the exception of two big problems. There are not enough zero-emission, renewable energy power sources to provide the power required by the rapid electrification of the country, and the Dutch electric grid is not capable of handling the increased electric loads.

Source: All CO₂ emissions data is taken from ‘Our World in Data’, Annual CO₂ emissions, Netherlands

Dutch officials and companies said lengthy waits for connections were holding up economic growth and could force businesses to rethink their investment plans. Despite efforts to invest in new cables and substations, new connections in some areas of the country will only become available in the mid-2030s. Energy consultant Zsuzsanna Pato stated that other countries should see what is happening in the Netherlands as a warning, saying that Britain, Belgium and Germany are “all in trouble.” You don’t need to look much further than what happened in Spain and Portugal in April 2025 when the electric grid failed, leaving tens of millions without power, to confirm the truth of this statement. Energy experts blamed a heavy reliance on solar and wind farms in Spain for leaving the region’s power grid vulnerable to such a crisis.

(Ref: Addenda #80 – May 2025)

The Netherlands had been used to relying on its vast natural gas resources after closing coal-fired power plants, that upgrades to the electric grid had not kept up with increasing loads. The Dutch government closed the Groningen gas field, the largest natural gas field in Europe, in 2024 following continued seismic activity linked to decades of gas extraction, that has damaged thousands of buildings. The Netherlands already has some of the highest costs for electricity in western Europe due to demand/supply imbalances, and the Dutch government expects it will have to spend €200bn (equal to \$232.5 billion U.S. dollars) on new distribution and transmission through 2040. Electricity prices will continue to rise exponentially to cover the grid upgrades. The Dutch government is also urging consumers to charge bikes and cars outside of peak use times, just as California has had to do, to avoid blackout conditions.

Ironically, a 2019 article in energy industry newsletter NS Energy noted that, “The ambitious target of phasing out coal-fired power plants and the largest gas field is likely to pose developmental challenges for the country in future... Furthermore, the government’s plan to shut down all coal-fired plants, if not met by alternate base-load capacity in time, may lead to a power deficit in the country.”

But what do energy analysts know about power deficits....

Additional References:

A Clear and Present Danger Threat #2 – U.N. Agenda 2030, Ch. 8, The U.S. power grid

Addenda #24 – November 2023; U.S. power grid replacements, N.Y. electric grid upgrade program

Addenda #25 – November 2023; N.Y. electric grid generation shortfall and grid reliability

Addenda #44 – April 2024; 2023 NYISO *Power Trends* report, N.Y. grid reliability

Addenda #47 – June 2024; US electricity load forecast: how prepared is NY state?

Addenda #59 – August 2024; 2023 NYISO *Power Trends* report, N.Y. grid reliability

Addenda #66 – October 2024; Hawai’i’s electric grid, rolling blackouts, conservation requirements

Addenda #70 – November 2024; N.Y. and NYC energy shortfalls

Addenda #47 Update – January 2025; *Explosive’ demand growth puts more than half of North America at risk of blackouts: NERC*

Addenda #77 – March 2025; German Climate Change Act, *Dunkelflaute* creates havoc

Addenda #78 – March 2025; *Amid explosive growth, America is running out of power*

Addenda #80 – May 2025; *Net zero blamed for Europe’s biggest power cut*

Addenda #83 – July 2025

Re: Ch. 8, 2050 Net-Zero Emissions; Impossible!!

Rare Earth Materials

SDG 3 – Ensure healthy lives and promote well-being for all ages

SDG 6 – Ensure availability and sustainable management of water...

SDG 12 – Ensure sustainable consumption and production patterns

SDG 13 – Take urgent action to combat climate change and its impacts

In chapter 8 of *A Clear and Present Danger, Threat #2 – Agenda 21/2030*, I spent several pages discussing whether or not there are enough ‘rare earth minerals’ available to complete the electrification and Green Energy transition mandated by U.N. Agenda 2030 and government leaders worldwide. Lithium, cobalt, nickel, manganese, aluminum and copper will be required in large quantities to produce electric vehicles and renewable power components. I quoted Simon Michaux, Associate Professor of Geometallurgy at the Geological Survey in Finland, who said, *“The quantity of metal required to make just one generation of renewable tech units to replace fossil fuels is much larger than first thought. Current mining production of these metals is not even close to meeting demand. Current reported mineral reserves are also not enough in size.”*

I’ve written two Addenda’s specifically on rare earth minerals to date, dealing with their insufficient supply to achieve climate goals, and about the exploitation of child slave labor to extract these metals from the earth. I recently watched a YouTube documentary done by Australian journalist Liam Bartlett. Bartlett currently works for Channel 7 News in Sidney, Australia, and has worked for several other news outlets including 60 Minutes over his 33-year career. Bartlett’s investigative documentary, *China’s EV shame: the deadly reality behind the ‘clean, green’ electric vehicles*, premiered on April 7, 2025. It contained an in depth investigation into the environmental, health and safety violations at the Morowali Industrial Park (IMIP) in Bali, Indonesia and the Weda Bay Industrial Park in North Maluku, Indonesia.

They’re sold as our personal way of saving the planet... We’re building them to make a difference. But the truth of electric vehicles makes a mockery of their sales pitch to protect our children’s future...

Interviewing government officials and workers and their family members at the two nickel processing facilities, Bartlett uncovers the truth about how devastating the mining and processing of rare earth metals is. Indonesia contains the world’s largest nickel reserves. Nickel is a key component in electric car batteries, especially the lithium-ion battery which is the most common type used in electric vehicles. While the amount of nickel used in an EV battery varies, on average, a lithium-ion battery used in an EV contains between 2.6 and 5.3 pounds of nickel. An average 60-kW Li car battery contains about 400 pounds of these metals, many of which are sourced from China, Africa, Indonesia and South American countries that have virtually no health and safety requirements for workers, environmental regulations for water and soil pollution or requirements for closure and reclamation of mining sites.

Indonesia is the world's top nickel producing country, and the Morowali Industrial Park is the largest nickel processing facility in Indonesia, employing about 100,000 workers. Fifty different companies, most of them Chinese owned, operate smelters inside the industrial park, which is controlled by the Chinese Tsinghan Holding Group Co. Although the facility has been in operation since 2015, there was little in the way of government oversight of the activities at Morowali. This spring investigators found that IMIP built processing facilities and conducted other activities on 1,800 hectares of land that were not included in the company's original environmental impact assessment report. The park also failed to manage wastewater and air pollution, which exceeded the permissible levels. Electricity required to operate the park, is produced by coal-fired power plants which release more than 50,000 tons of CO₂ into the atmosphere every day. The ministry also found an estimated 12 million metric tons of illegal tailing deposits, waste materials left over after metals processing, in the vicinity of IMIP.

The fishing industry near the industrial park has been devastated. The water around the processing facility that was once crystal-clear, has turned opaque and polluted. Hot water discharge from power plants flows directly into the sea, raising water temperatures and damaging coral reefs and marine ecosystems. During heavy rainfall, runoff turns waterways an orange-brownish color, carrying heavy metals and sediments downstream. Residents report skin irritation after contact with contaminated water, creating a public health crisis in communities that have traditionally relied on these water sources. Many fishermen have had to abandon the occupation their ancestors worked and seek employment in the park to support their families.

While the government investigation detailed the environmental violations, it was the investigation by Bartlett that showed the health and safety effects of the nickel processing. Workers breathe in dust and metals emissions in the air with no respirators for protection, resulting in upper respiratory infections and worse. Long working hours with no respiratory protection, no hearing protection and safeguards on equipment are literally killing these workers. Nearly 7,000 cases of respiratory problems have been reported since 2018, according to local health authorities. Healthcare workers attribute these respiratory issues directly to industrial dust and emissions.

In December 2023, untrained workers were conducting repair work on a smelter furnace. A flammable liquid in the furnace ignited and exploded, killing 13 workers and injuring 46. Eight of the injured died of "horrific burns" in the hospital. In October 2024, a worker was burned alive in a smelter incident. The plant's union leader told Bartlett that every day, 8 to 10 workers are injured in accidents, some of them fatal. "Our workers are dying for electric cars" he said.

Weda Bay Industrial Park in North Maluku, Indonesia, employs around 30,000 workers and contains one of the largest nickel mines in the world. In 2017, the same Tsinghan Holding Group Co. that operates Morowali Industrial Park, purchased a 57% stake in Weda Bay Minerals and giving it control of the facilities mineral processing. The documentary

produced by Bartlet shows the same environmental, health and safety violations at Weda Bay that were uncovered at Morowali. Operations at Weda Bay have resulted in significant deforestation, air and water pollution, and emitting massive amounts of greenhouse gases from five coal plants constructed to power the operations. The documentary reported that Tsinghan Holdings plans on expanding its processing operations and building another five coal-fired power plants to provide power needed to run the expanded facility. Once these plants are in operation, they will pump out more greenhouse gasses than the entire country of Brazil, and dump millions more toxic waste into waterways.

The Indonesian government had reclassified toxic waste from metals processing as non-hazardous, in the efforts to keep foreign investment in their country continuing. Nickel slag was allowed to be dumped into local fishing waters, with the same results as in Morowali. The local waterways are polluted with high levels of ‘heavy metals’ which are poisoning local residents who rely on local fish stocks for a food source. Blood tests on residents around the park showed dangerously high levels of arsenic and mercury. All in the name of saving the planet by driving battery powered vehicles, trucks, buses, lawnmowers, leaf blowers, etc.

The same working conditions affect workers at Weda Bay, especially upper respiratory infections. One worker, 23-year old Glean Emanuel, was excited when he got a job at one of the smelters. The fumes he was inhaling resulted in him passing out multiple times and being evacuated to the hospital when he began vomiting blood. Many of Glean’s fellow workers suffer the same symptoms, but the company kept these conditions a secret from them and refused to give Glean his medical records. Indonesia is also home to the last “uncontacted” indigenous tribe, the O’Hongana Manyawa or Togutil people, with a population estimated between 1,500 and 3,000. Operations at Weda Bay are threatening to push them out of their forest habitat as a result of expanding the mining operations.

The 193-Member United Nations General Assembly today formally adopted the 2030 Agenda for Sustainable Development, along with a set of bold new Global Goals, which Secretary-General Ban Ki-moon hailed as a universal, integrated and transformative vision for a better world.

“The new agenda is a promise by leaders to all people everywhere. It is an agenda for people, to end poverty in all its forms – an agenda for the planet, our common home,”
UN News; 25 September 2015

That announcement was supposed to be the beginning of “a better future” for all the worlds people. Columbian pop singer Shakira sang John Lennons song, ‘Imagine’ in front of the U.N. General Assembly, to mark the adoption of the Sustainable Development Goals. SDG 7 was all about ensuring access to clean and affordable energy and reducing global greenhouse gas emissions. The transition to electric vehicles from fossil fuel burning fuels was promoted as “essential” in achieving reduced emissions. Making this transition was supposed to not only reduce emissions, but also “improve the lives and livelihoods of people everywhere.”

Driving an electric vehicle may be cleaner (greener) than a gas powered vehicle and create a ‘lower carbon footprint’ over the lifetime of use. But studies have shown that the process of making those batteries that power electric vehicles — from using mining raw materials like cobalt and lithium, to production in gigafactories and transportation — is energy-intensive, and one of the biggest sources of carbon emissions from EVs today. “Producing electric vehicles leads to significantly more emissions than producing petrol cars. Depending on the country of production, that’s between 30% to 40% extra in production emissions, which is mostly from the battery production,” said Florian Knobloch, a fellow at the Cambridge Centre for Environment, Energy and Natural Resource Governance.

“I think the battery is the most complicated component in the EV, and has the most complex supply chain,” George Crabtree, director of the U.S. Department of Energy’s Joint Center for Energy Storage Research, told CNBC, adding that the energy source used in battery production makes a huge difference on the carbon footprint for EVs. Besides the increased emissions from the mining, extraction, processing and manufacturing processes, what must also be factored into the “sustainability” of batteries, EV promoters need to include the unethical and environmentally unsustainable mining practices in underdeveloped nations as well as the human rights abuses of the people that are employed in those processes.

There are an estimated 1.64 billion vehicles in the world based on a data analysis done by Hedges & Company in January 2025. Of that number, 58 million (3.5%) are electric vehicles. If there were no new growth in the number of vehicles, which is not likely as world population continues to increase, an additional 1.58 billion electric vehicles will have to be produced to reach the UN’s ‘Global Roadmap’ for net-zero emissions by 2050. What Liam Bartlett’s documentary should show the world, is that not only is net-zero unachievable, but so are all of those Sustainable Development Goals that are impacted by the manufacturing process of electric vehicles.

Addenda #65 (October 2024) Update – July 2025
Re: Ch. 17, S.D.G. Enforcement by Global Organizations
SDG 10.7 – U.N. Migration Policies

ICE arrests 1,361 criminal aliens in Houston area in June

Among the aliens arrested were 32 child predators, 9 murderers, 16 gang or cartel members, and one alien convicted for hijacking an airplane

U.S. Immigration and Customs Enforcement Press Release, July 14, 2025

On January 22, 2025, President Trump signed an executive order invoking the National Emergencies Act, declaring that a national emergency existed at the southern border. This order directed the Secretary of Defense and the Secretary of Homeland Security to take any and all measures necessary to control the border, including the use of U.S. military troops and National Guard. The President also authorized his ‘border czar’, former acting head of Immigration and Customs Enforcement (ICE), Tom Homan, to begin rounding up and deporting illegal immigrants with criminal records.

What was *known* at this point, was that there were 662,556 illegal immigrants with criminal histories, living here among us in communities across the United States. This number included 14,944 illegal immigrants with current or pending convictions on murder charges, 36,143 illegal immigrants with current or pending convictions on sexual assault or sex offenses, 70,379 illegal immigrants with current or pending convictions of dangerous drugs, and 105,146 illegal migrants with current or pending convictions on assault.

Source: Immigration and Customs Enforcement, Deputy Director Patrick Lechleitner letter to House Homeland Security Committee, dated September 25, 2024.

What was also *known* at this point, was that in the four years of the Biden administration, Customs and Border Enforcement Agents had encounters with 10.9 million individuals attempting to cross our borders to get into the United States. For the first three fiscal years of the Biden administration, public health orders (Title 42) and ICE determinations of inadmissibility (Title 8), prevented 91% of those encountered at the border from entering the U.S. In fiscal year 2024, after the Biden administration ended the COVID-19 Public Health Emergency and loosened Title 8 restrictions, releases into the U.S. surged. This resulted in “migrant surges”, with hundreds of illegal immigrants arriving each day in major U.S. cities; more than 1.8 million in fiscal year 2024 alone. What wasn’t known at this point, was how many of these illegals or those who crossed our borders *undetected*, also had criminal backgrounds.

In the first 50 days of the Trump administration, ICE made 32,809 enforcement arrests, almost as many arrests as were made in all of the entire fiscal year 2024! Of this number, 43% of those arrested had already been convicted of crimes and another 30% had pending criminal charges. That’s 24,091 criminal illegal aliens arrested by ICE in the first 50 days, removed from society and the ability to commit crimes on U.S. residents.

Note: ICE has yet to issue any updates on the number of arrests and removals it has achieved in FY2025, but individual press releases can be viewed on the U.S. Immigration and Customs Enforcement website. <https://www.ice.gov/newsroom>

As a result of coordinated enforcement actions across the country, the flow of illegal immigrants being encountered by CBP agents at U.S. borders has slowed dramatically. In the four years of the Biden administration, there were a total of 10.9 million ‘encounters’ at all U.S. borders, an average of 227,738 per month. In FY2024 alone, there were 2.9 million encounters at our nation’s borders, an average of 241,762 per month. In December 2023, there were 370,883 known encounters at all U.S. borders! The number of illegal immigrants, including criminals, that crossed our borders undetected can only be guessed at.

The number of encounters began to shrink dramatically after the November 2024 election, from 142,751 in October 2024 to 81,495 in January 2025.

Source: Nationwide Encounters, U.S. Customs and Border Protection website

The numbers posted on the U.S. Customs and Border Protection website show just 25,228 encounters at all borders in June, and fiscal year totals show 141,550 total “encounters” at all U.S. borders averaging 28,310 per month since Donald Trump took office. This contrasts with a monthly average of 227,738 during the entire Biden presidency. On June 28, Border Patrol recorded only 137 apprehensions across the entire Southwest Border, **the lowest single-day total in a quarter of a century**. And for the second month in a row, UCBP reported zero releases of illegal immigrants into the United States!

“I’ve done all I can do” to secure the border... President Joe Biden January 2024

The C.B.P. website also shows drug, and weapons seizures have declined significantly, arrests of criminal noncitizens, foreign gang members, and known terrorist watch list apprehensions are drastically lower as well. Yet despite the success of the apprehension and enforcement program, “never Trumpers”, the mainstream media and Democrat politicians have ramped up their attacks on the president and officials carrying out their duties. ICE agents face daily attacks on the streets as they make apprehensions, family members have been ‘doxed’ and targeted by agitators. Media outlets are intentionally misreporting events and ignoring crimes committed by or on the behalf of illegal immigrants. Democrat politicians are labeling ICE agents as ‘terrorists’, attempting forced entry into detention facilities and lying about the conditions detainees are living under.

Constituents Demand Democratic Congressmembers to ‘Break the Rules’, ‘Fight Dirty,’ Even ‘Get Shot’ for the Resistance

Axios, July 8, 2025

On July 7th, a group of two dozen House Democrats were interviewed by the news outlet Axios. The lawmakers said their voting base is enraged at their inability to stop the Trump agenda, with some saying they could resort to “violence” if Democrats can’t produce results. “Our own base is telling us that what we’re doing is not good enough... [that] there needs to be blood to grab the attention of the press and the public,” one lawmaker said. Another said

their constituents are convinced that "civility isn't working" and that they should prepare for "violence... to fight to protect our democracy."

At town halls in their districts and in one-on-one meetings with constituents and activists, Democratic members of Congress are facing a growing thrum of demands to break the rules, fight dirty — and not be afraid to get hurt.

Why it matters: House Democrats told Axios they see a growing anger among their base that has, in some cases, morphed into a disregard for American institutions, political traditions and even the rule of law.

The grassroots wants more. "Some of them have suggested ... what we really need to do is be willing to get shot" when visiting ICE facilities or federal agencies, a third House Democrat told Axios.

Just three days before Axios published the article, a group of 15 rioters attacked an ICE detention facility in Alvarado, Texas. The individuals, dressed in black, military-style clothing and wearing body armor, began shooting fireworks and engaging in acts of vandalism at the facility in an attempt to draw officers outside, and then fired as many as 30 shots at the correction officers. Twelve of the assailants have been arrested in what prosecutors are calling a "coordinated ambush", and charged with attempting to murder federal agents, terrorism and aggravated assault with a deadly weapon on a peace officer.

Matthew Gauna, a Democrat candidate for San Antonio City Council, posted a message on X: "I wanna see a few dead ICE agents, Los Angeles. Don't let me down."

Rep. Hakeem Jeffries implored people to "fight" the Trump Administration "in the streets"

Rep. LaMonica McIver called for supporters to "shut down the city... we are at war."

Senator Bernie Sanders said, "we got to figure out a way to stop ICE from what they are doing as soon as possible."

Chicago Mayor Brandon Johnson accused "secret police" of "terrorizing our communities."

Cynthia Gonzalez, the vice mayor of Cudahy, California, posted a TikTok video calling for violent street gangs in Los Angeles "protect their turf" against ICE agents.

This, is today's Democrat party, inciting their followers to attack the Trump administration and federal officials. And their followers are doing as they ask. They don't care that the streets where they live are safer, that criminal illegal immigrants are no longer crossing the border. They don't care that drugs and guns being prevented from coming into the United States. They don't care that human trafficking and sex trafficking is being shut down. They only care about stopping the Trump agenda, by whatever means possible, even if that means killing federal law enforcement officers and threatening their families and children.

As ICE ramped up its apprehensions and removals program, the numbers dropped dramatically again, to an average of just 28,310 per month through the end of June. "Normal" U.S. citizens should have been encouraged by the change. Way fewer illegals

crossing into and being admitted into the U.S., including way fewer criminals and gang members. More criminal illegals were being arrested, making the streets of our towns and cities safer, right? Who wouldn't want to never see stories like this again...

Illegals charged with murder, rape and kidnapping in a week of shocking crimes across the US
Suspect in Texas massacre had been deported 4 times after entering US illegally, ICE source says
Six Illegal Aliens Charged For Brutal Murder Of South Carolina Mother in Random Attempted Robbery

Houston 12-year-old's killing becomes focus of immigration debate as 2 undocumented migrants are charged with capital murder

'He should have never been allowed in': Mother demands border fix after daughter's murder by suspected MS-13 immigrant

Illegal migrant suffocated Syracuse woman, 21, he'd known since childhood on her birthday, buried her body in park: cops

Democrat politicians, their 'useful idiot' supporters and the liberal media is who. From protests and rioting that began in Los Angeles and spread across the country, Democrat politicians who held press conferences vilifying ICE raids and defending those arrested, even with criminal records and media outlets that ran stories like Axios; *'Houston ICE arrests of noncriminals skyrocketed'*, the Cato Institute; *'ICE Is Arresting 1,100 Percent More Noncriminals on the Streets Than in 2017'*, or Fortune; *'Trump says he wants to deport 'the worst of the worst,' but ICE data shows 72% of people detained have no criminal convictions'*.

Kayla Hamilton was murdered by illegal immigrant and MS-13 gang member Walter Martinez in July 2022. The 20-year-old, who was diagnosed with Autism, appeared to have been raped, tied up, and strangled with a phone cord. Her murder was recorded on the voicemail message she made to her boyfriend when her attacker showed up at her door. DNA evidence collected from Hamilton's clothing at the crime scene led to the arrest of a teenage El Salvadorian national named Walter Javier Martinez, a confirmed member of the violent gang MS-13, who later confessed to four murders, two rapes, and additional crimes.

Kayla's mom, Tammy Nobles testified before a Senate Judiciary Subcommittee hearing on July 22. Sen. Alex Padilla of California pressed a panel of invited speakers that included Nobles, angel mom Marie Vega and others touched by the illegal immigration topic during the hearing, asking them to raise their hand if they believed "all immigrants are criminals." It was a trick question, intentionally posed to cast the panelists as being 'racist' if they answered yes. Tammy torpedoed the intent by responding, "Are you talking about legal immigrants or are you talking about regular immigrants?"

Note: Padilla is the same Democrat who had to be forcibly removed from a press conference being held by DHS Secretary Kristi Noem in June, after loudly speaking over Noem and approaching the podium where she was standing.

Democrats brought in speakers to counter the ‘angel mom’s’, who then spoke of alleged “traumatic experiences” endured by those being apprehended and “beaten” by ICE agents or gave testimony describing enforcement actions as “aggressive and fear-based raids of immigrant communities are already eroding trust, cooperation, and public safety in our neighborhoods.” One thing is clear; the Democrat party is out of step with the majority of Americans, the November 2024 election results proved this. Among all voters, immigration was one of the top 6 issues. Sixty-one percent of registered voters surveyed by the Pew Research Center said immigration was “very important” to their vote in the 2024 presidential election. Among Trump supporters, that was the second most important issue at 82% surveyed. For Harris supporters, immigration was way down the list at just 39%, surpassed by access to healthcare and abortion and Supreme Court appointments. That kind of tells you what Democrats are *really* concerned about...

In Addenda #46 – May 2024, I noted that U.N. Agenda 21 was originally promoted as “*A comprehensive blueprint for the reorganization of human society...*” In order to achieve the Sustainable Development Goals, the U.N. must have complete cooperation from all member states. Global Elites see the culture of the United States as the biggest obstacle in their path in achieving their plans. This is why the Global Compact for Migration was created; to ensure that mass migration into the United States would eventually change demographics and culture, resulting in compliance with Agenda 2030. But along with Agenda 2030, Democrats saw mass migration as a means to achieve an enlarged voter base, that would support progressive Democrat politicians in future elections and ensure their political power in the decades to come. This is what they care about most and the safety of U.S. citizens is not a consideration as they continue to push back against the Trump administrations enforcement actions.

Addenda #84 – August 2025

Re: Ch. 9, Progressive States Climate Policies

SDG 7 – Ensure access to affordable, reliable, sustainable and modern energy for all

Ref: Addenda #25 – November 2023

Ref: Addenda #44 – April 2024

Ref: Addenda #45 – May 2024, May 2025 Update

Ref: Addenda #59 – August 2024

Elected officials, contractors, developers, and advocates celebrate as NY's All-Electric Buildings Act takes effect

Rewiring America, July 25, 2025

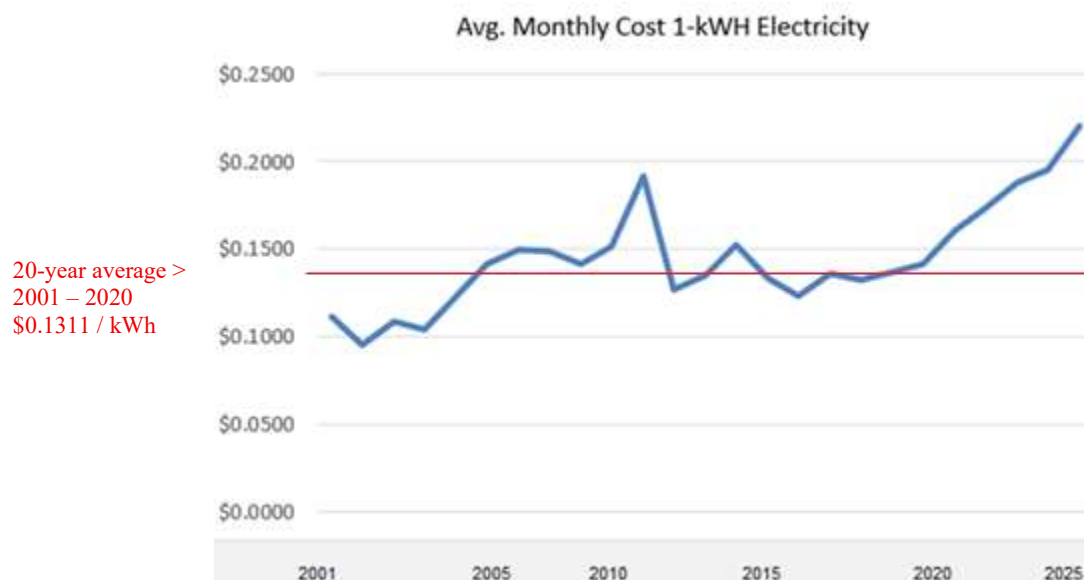
Assemblymember Emily Gallagher, Senator Liz Krueger, and New York City Public Advocate Jumaane Williams joined a virtual press event Friday praising energy affordability, job creation, and environmental benefits.

Let's talk about "energy affordability" in New York state for a moment. I've kept data on my household energy usage since we moved into our house 45 years ago. In the early 2000's, when energy was 'cheap', the average monthly cost of one kilowatt hour of electricity was \$0.1084, but by the end of the 2000's, I was paying an average of \$0.1466 per kWh. The cost of electricity actually fell over the next ten years, as hydro fracking produced plentiful amounts of natural gas for electricity generation, averaging \$0.1418 per month. Following the implementation of the 2019 Climate Leadership and Community Protection Act, prices climbed dramatically. My electricity costs averaged \$0.1956 per kWh in 2024 and \$0.2205 for the first seven months of 2025. The CLCPA mandated dramatic reduction in CO₂ emissions from electric generation sources which meant more renewable power sources had to be built to take the place of coal, fuel oil and natural gas fired power plants. Existing power plants were subject to mandatory purchase of CO₂ emissions "allowances", driving up the cost of electricity purchased from fossil fuel powered sources. (Ref: Ch. 9 Progressive States Climate Policies)

The CLCPA was followed shortly by a series of mandates for the 'electrification' of motor vehicles, buses, off-road engines, cooking and heating. As a result of the closure of fossil fuel generation facilities and electrification mandates, utility companies in New York began a multi-year upgrade of the state's distribution and transmission system, estimated in 2019 to cost utility rate payers an initial \$6.8 billion to upgrade the electric grid, and an additional \$10.5 billion cost to upgrade electrical grids at the city and neighborhood street level. (Ref: Addenda #45 – May 2024)

Utility companies in New York are required to purchase Renewable Energy Certificates from renewable energy producers at prices set by NYSERDA, in order to lower their carbon emissions. This adds an additional cost layer to the price per kWh. The CLCPA also mandated financial reparations to "disadvantaged communities" that "bear the burdens of negative public health effects, environmental pollution, and impacts of climate change."

New York also expanded the Energy Affordability Program, which helps low-income households with utility bills, and is funded by the rest of the state’s utility ratepayers. The combination of government mandates, electric grid upgrades and state backed renewable energy projects have caused the price of electricity to explode in recent years.



Source: National Grid average monthly cost per kWh, 2001 through June 2025, Supply and Delivery, my National Grid History database.

The average monthly cost per kWh began to increase dramatically in 2021 and continues to increase each year. For the seven months ending July 2025, the average monthly cost per kWh has reached \$0.2205, an increase of more than 56% since 2020.

In order to pay for mandatory CO₂ emissions “allowances”, renewable energy subsidies, energy affordability programs, disadvantaged communities payments and electric grid upgrades, utility companies operating in New York state have requested a series of multi-year double digit rate increases. In April, National Grid asked regulators for a 20% increase in electricity rates and 27% increase in natural gas rates over the next three years. This increase would add \$600 per year to the bill of a typical household using both electricity and gas. This rate increase comes at a time when one in seven residential customers of National Grid’s Upstate territory – more than 213,000 households — are already more than 60 days late paying their bills, according to PSC data. But not to worry, many or most of those households will receive assistance from the Energy Affordability Program.

“The science is on our side. The economics of affordability for people with their utility bills are on our side.”

This bit of confusing logic came from Democrat New York Senator Elizabeth Krueger, who represents the 28th Senate District which consists of the majority young, progressive white population of Upper Manhattan and Midtown area of New York City. The income of her supporters, \$159,997 per household, is nearly double the state average. *They* won’t have much of a problem paying the increased utility bills...

“I sponsored the All-Electric Buildings Act before it passed in the budget in 2023. Then, like now, I was incredibly proud of this legislation and its ability to keep utility costs stable and affordable for ratepayers. If you consider another double digit rate hike “stable”...

This statement came from Democrat New York Assemblywoman Emily Gallagher, who represents the majority young, progressive white population of the northern portion of Brooklyn. The income of her supporters, \$121,768 per household, is about 1.4 times the state average. The 20% of her constituency with income below the poverty line will benefit from assistance from the Energy Affordability Program.

Another cost burden that will be implemented as early as the end of this year, is Governor Hochul’s “cap and invest” program, which mandates large emitters of greenhouse gasses to purchase of “allowances” for every ton of CO₂ they put into the atmosphere. Companies that have a large presence in New York state include IBM, Pfizer, Global Foundries Inc., GE Vernova and Lockheed Martin. Micron Technologies could end up being the single largest employer in the state, if and when its Clay New York computer chip plant is fully built. These companies will be subject to the cap and invest mandate, having to purchase millions of dollars of allowances each year, as a cost of doing business in New York state. While these increases won’t be reflected in our monthly utility bills, they will be reflected in the increased costs of the goods and services they provide to New York consumers.

“This final step to adopt New York’s nation-leading All-Electric Buildings Act means New Yorkers can look forward to cheaper, cleaner and more comfortable homes for 2026,” said Liz Moran, New York Policy Advocate for Earthjustice.

This makes official the All-Electric Buildings Act which was inserted into the state 2023-2024 budget by Governor Kathy Hochul and passed by state Democrat legislators. Beginning in January 2026, natural gas appliances and heating equipment will be banned in all new residential construction and new buildings up to 7 stories tall, except for commercial and industrial buildings larger than 100,000 square feet, with a few exceptions.

While advocates for New York states own *Green New Deal* celebrated one of the final steps to achieving New Yorks climate goals, the reality of the situation says that New Yorkers are in for a big shock in coming years, as the states electrical grid is not ready for this transition. The *2024 Reliability Needs Assessment* report released by the New York Independent System Operator (NYISO) in November 2024, states “This 2024 RNA continues to observe a declining statewide system margin due to increased demand, anticipated generation retirements without adequate new generation addition, and the unavailability of non-firm gas during winter peak conditions. A negative statewide system margin, on its own, is not a criteria violation, but it is a leading indicator of the system’s inability to securely serve demand under normal operations while fully maintain operating reserves.”

The NYISO report shows that unless dramatic increases in new electricity generation is brought online by 2032, the reliability margin for winter will be about 800 megawatts below demand the following year. The impact of all this electric heating now being used in winter months instead of natural gas furnaces will cause winter demand to increase dramatically,

and natural gas fired power plants will not be available to help increase grid stability and reliability. The NY state DEC won lawsuits blocking the owners of three natural gas-fired power plants to upgrade existing boilers and install cleaner-burning, state-of-the-art equipment. The Danskammer Generating Station, Greenidge Generating Station and Astoria Energy generating facility were denied permits to upgrade their facilities by the DEC, despite the fact that these upgrades would substantially reduce CO₂ emissions.

But NYISO and other industry experts are saying that these projects are urgently needed, in order to maintain grid stability. In its 2025 Power Trends report, issued last month, NYISO said New York should facilitate the renovation of old, inefficient power plants, whether or not they burn fossil fuels. Those renovations, also called “repowering,” often amount to installing all-new equipment in the shell of an old plant, increasing its output and efficiency. NYISO also suggested it would be a good idea to site some brand-new “conventional” – that is, gas-burning – power plants. “Every plausible option ... should be on the table,” wrote Rich Dewey, president and CEO.

The New York State Energy Research and Development Authority (NYSERDA) is the authority responsible for soliciting bids for renewable energy projects in New York. In 2024, NYSERDA awarded contracts for 26 solar, wind, and hydroelectric projects, to develop 2,566 megawatts of new renewable energy capacity throughout New York State. One of the contracts awarded was for the 90 megawatt Homer Solar Energy Center to be built on 600-acres in Cortland County, New York. Successful bidder/developer EDF Renewables was awarded the contract in June 2024, *four years* after it first began working on the preparation and submittal process for the project. Construction was set to begin in 2026 with the plant projected to begin operating in November 2027. After a series of delays, EDF sold the project rights to AES US Renewables. As of June 3rd, construction has yet to begin and there is no project update on the Homer Solar – AES web page.

Even with New York state pushing through legislation to speed up the environmental review and permitting process for large scale renewable projects, it still takes years for them to become operational if there are no other delays. Yet New York state continues to force reliable natural gas power plants to close. The CLCPA mandated that 70% of all energy consumption be served by renewable energy by the year 2030. In 2023, the most recent year data was available from, total energy consumption in New York was 3,437 trillion Btu. Renewable sources provided just 8% of all energy consumed in 2023. If nuclear is allowed to be included, that increases to 25%.

Natural gas was the source of 39% of all energy consumed by New Yorkers in 2023. At the pace New York is bringing renewable power sources on line, electrifying homes, businesses, cars and public transportation, the 70x30 scenario will miss its target date by several years. This was verified in a report released by NYSERDA in July of 2024.

“It’s still worthwhile to push as aggressively as fast as we can for these goals. With fighting climate change... every little bit counts,”

Patrick McClellan; state policy director, New York League of Conservation Voters

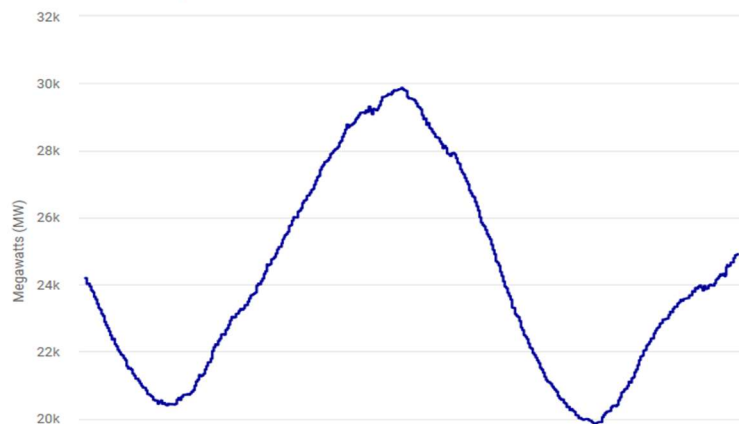
Besides the state’s refusal to allow cleaner-burning fossil fuel generation, the federal freeze on new offshore wind project permitting forced state regulators to pause building new transmission lines for offshore wind farms and to cancel new Offshore Wind Solicitations for the rest of the year. This casts further doubt on the state’s ability to provide enough renewable power capacity called for in the NYISO reports. Even if enough renewable energy comes online, NYISO has warned for years that there is a missing link in the plan to reach zero greenhouse gas emissions. Renewable power sources present considerable problems because they rely on changing sun or wind conditions. Just look at what happened in Spain and Portugal three months ago. (Ref: Addenda #80 – May 2025)

The NYISO must ensure that enough reliable power can be brought online as needed to keep the electric grid in balance, regardless of whether the wind is blowing or the sun is shining. That’s a role currently played by natural gas plants.
(Ref: Addenda #44 – April 2024)



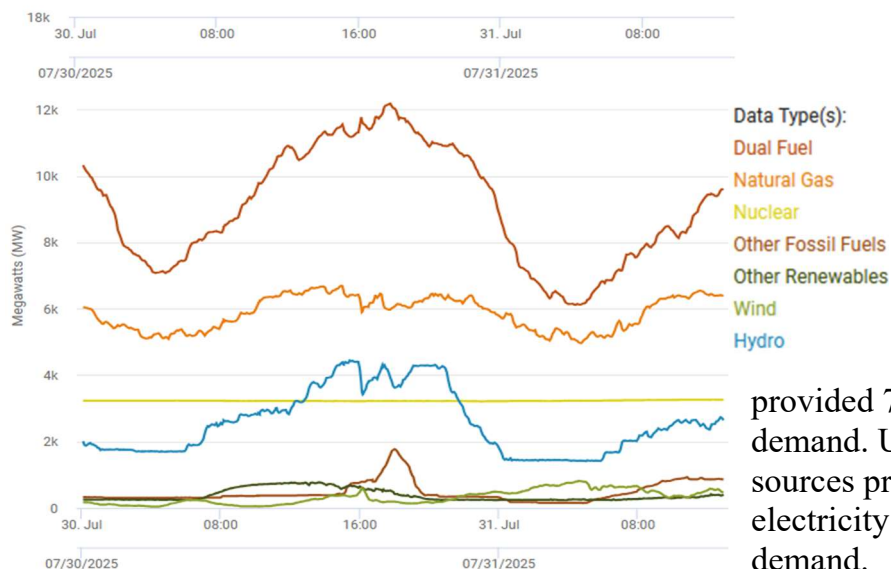
Real-Time Dashboard

7/31/2025 12:50pm



Temperatures in Syracuse NY hit 90-degrees on July 28, 88-degrees on the 29th, and 90-degrees again on the 30th.

Electricity use increased by 47% between 4:30 am and 5:50 pm on July 30, as air conditioning ramped up in response to the heat.



During this time period, dual fuel power sources (fuel oil + natural gas) provided all the additional electricity to meet demand.

Natural gas fueled power provided 70% of the baseload demand. Unreliable renewable power sources provided less than 38% of all electricity generated during peak demand.

Thousands without power in Albany County amid soaring temperatures

CBS 6 News; June 23, 2025

As of 6:20 p.m., Approximately 3,200 customers were without electricity. National Grid estimated that power would be fully restored within the next two hours.

NYC heat wave triggers power outages across Tri-State

Fox5 New York; June 24, 2025

- *A severe heat wave is causing widespread power outages in the Tri-State area, with thousands of Queens residents near the Long Island border losing electricity.*
- *Con Edison crews have been working overnight and urging residents to limit the use of heavy appliances and air conditioners to prevent further blackouts.*

Power outages in Queens, Brooklyn for third day amid extreme heat

WPIX New York City; June 25, 2025

Thousands of New York City residents woke up without power for a third day in a row on Wednesday amid extreme heat, according to Con Edison's outage map.

Thousands still without power as heat wave breaks

Spectrum News NY1; June 26, 2025

Power outages stretched into a fourth day Thursday following a record-breaking heat wave that strained the city's electrical grid.

As of 3:40 p.m., more than 6,324 Con Edison customers remained without electricity, including 5,525 in Brooklyn, 762 in Queens, 36 in the Bronx and one in Manhattan, according to the utility's outage map. Earlier in the day, more than 8,500 customers were in the dark.

Outages began Monday, when over 12,000 customers lost power at one point. To ease pressure on the grid and support repairs, Con Edison reduced voltage by 8% in parts of southeast Queens Monday morning. Similar voltage reductions were later implemented in sections of Staten Island and several Brooklyn neighborhoods.

NY grid nearly maxed out during heat wave

FingerLakes1.com; June 30, 2025

New York narrowly avoided power outages during June's first major heat wave, as electricity use surged near maximum capacity, according to USA Today. The state issued energy warnings and urged conservation, spotlighting growing strain on the grid amid rising temperatures and renewable energy transitions.

Power loss disrupts subway service for second time this week

Spectrum News NY1; July 31, 2025

A power outage Thursday at West 4th Street-Washington Square disrupted subway service for the second time this week, the MTA said.

"There is a power issue. Crews are on scene," the MTA said in a statement, urging riders to check its website for real-time service updates. On Tuesday, an outage at the same station left some morning commuters stranded between stations for hours.

Unplanned outages in San Joaquin County made thousands of PG&E customers temporarily lose power

KCRA3, Sacramento California; June 19, 2025

Thousands of San Joaquin County residents temporarily lost power following an unplanned PG&E outage, officials said. The utility company said the outage was necessary due to "grid instability issues."

PG&E said around 4:30 p.m. Thursday, it began de-energizing some customers in Stockton and Manteca, "in order to rebalance the grid."

These news reports validate the points I have been making in Addendums for Threat #2 - U.N. Agenda 21 / 2030. The electrical grid in New York City or the rest of the state is not up to the task of generating and transmitting the electrical loads required to meet New York's electrification goals, especially in extreme weather conditions during hot summer months, or cold winter months as more 'electrification' occurs. The current and projected generation capacity will not be enough to meet the summer or winter peak-demand loads required for electrification as well as data center and industrial growth demand.

Addenda #85 – August 2025

Re: Ch. 8, 2050 Net-Zero Emissions; Impossible!!

SDG 7 – Ensure access to affordable, reliable, sustainable and modern energy for all

Over 100 GW of U.S. solar, wind projects no longer pencil out, says FTI Consulting

Tax credit cuts from the Republican Congressional budget bill have made more than 320 proposed solar and wind projects no longer economically viable, said the business consultancy.

pv magazine; July 23, 2025

The early end of federal tax credits for solar and wind projects may lead to many canceled proposed projects as the economic viability has come under question.

“We conservatively estimate that more than 320 proposed wind and solar projects with a total capacity of over 100 GW would no longer be economically viable, making it significantly harder, if not impossible, to attract capital and meet key development milestones,” said a report from FTI Consulting.

I’ve written several Addenda’s about offshore wind projects where developers had realized the cost of the project would not allow them to be profitable, and the developer cancelled the project outright or backed out of contracts awarded and rebid the same project at higher rates for the electricity they would produce. In October 2023, Ørsted, Equinor and BP petitioned the New York State Public Service commission to make contract adjustments for three offshore wind projects that were bid in 2018. The developers claimed that due to increased costs, the projects were no longer “viable investments.” The PSC refused to grant the \$12 billion rate increase, so in January 2024, the developers terminated the agreements and backed away from the projects. The termination did not last, however. The projects were “re-bid” in January 2024 at “more favorable terms” and the projects moved forward.

Ref: Addenda #30 – January 2024, Addenda #40 – February 2024

Under the Inflation Reduction Act of 2022, developers received a 30% tax credit for investments in zero-emission energy projects, and a production credit of up to \$0.0275 for every kilowatt-hour of “clean electricity” generated by the projects. While the tax credits enabled expensive renewable energy projects to be profitable for developers, these two credits were estimated to cost the federal government \$62 billion in lost tax revenue over ten years. Overall, the IRA would result in a reduction of long-term U.S. economic growth by about 0.2 percent and eliminate about 29,000 full-time equivalent jobs in the United States.

Source: Breaking Down the Inflation Reduction Act’s Green Energy Tax Credits; Tax Foundation, September 14, 2022

Source: Details & Analysis of the Inflation Reduction Act Tax Provisions; Tax Foundation, August 10, 2022

When the *One Big Beautiful Bill Act* passed Congress in May, tax credits that developers relied on to help make renewable energy projects profitable were terminated for projects not starting construction by July 4, 2026. Projects already under construction will be allowed tax credits if a “substantial portion” of the project is built by the July 2026 deadline. The Institute for Energy Research reported that tax breaks on renewable energy projects cost \$31.4 billion in 2024 alone and were expected to cost taxpayers \$421 billion more between 2025 and 2034.

FTI Consulting estimated that 54 GW, or 11% of all solar and wind capacity for renewable projects planned in years *after* the deadlines, are likely “no longer financially viable” and developers will scrap those projects unless they can receive considerably “more favorable terms” from local governments to develop them. “Utilities will need to seek alternatives less affected by H.R. 1 [OBBBA] to bridge capacity shortfalls. Without coordinated policy and regulatory support, however, the risk remains high that the U.S. power grid will not be able to support the next wave of technological and industrial expansion.”

Twenty-four states, plus the District of Columbia and Puerto Rico, have 100% carbon-free electricity mandates, with target dates of 2030 to 2050. These states represent 53% of the population of the United States. In its *U.S. State Renewables Portfolio & Clean Electricity Standards: 2024 Status Update*, the Lawrence Berkeley National Laboratory notes that the demand for electricity from renewable power sources will grow 240%, from roughly 500 TWh today to 1700 TWh by 2050, in order to meet emissions and electrification mandates. That is a rate of growth that is three times what has been achieved in recent years.

Ref: Addenda #47 – June 2024 & Update June 2024, Addenda #78 – March 2025

Whether or not states can meet these mandates is debatable. The NYISO *2025 Power Trends* report showed that in 2024, New York generated 131,052 GWh of electricity for consumers; 34,451 GWh (26.3%) generated by “true renewable” sources (hydro, wind & solar) with another 27,936 GWh (21.3%) generated by nuclear power. In just five years, New York will need to more than double its current level of clean energy production, an unrealistic goal that cannot be achieved in that timeframe, but the state is failing to increase renewable power production at the rate needed to meet increased demand. Add in the challenge of ever increasing costs of materials and labor, developers financial problems leading to project terminations, insufficient progress in upgrading the nations electrical grid and now ending the clean energy tax credits from the Inflation Reduction Act. These combined, all but assure that states will be unable to meet renewable energy mandates.

Regardless of the challenges, Progressive Democrat leaders are still pushing emissions reductions and electrification goals while development of renewable power sources slow and forced closures of fossil fuel power plants continue. The outcome is predictable, but climate alarmists refuse to acknowledge it...

More than half of North America faces a risk of energy shortfalls in the next five to 10 years as data centers and electrification drive electricity demand higher and generator retirements threaten resource adequacy... North American Electric Reliability Corp, June 17, 2025

With just five years to reach the Sustainable Development Goals, we need to shift into overdrive. António Guterres Secretary-General, United Nations, July 14, 2025

“The interesting thing about the Green New Deal, is it wasn’t originally a climate thing at all.... Do you guys think of it as a climate thing?” Because we really think of it as a how-do-you-change-the-entire-economy thing.”

Saikat Chakrabarti, chief of staff for Representative Alexandria Ocasio-Cortez, Washington Post, 2019

“It doesn't matter what is true, it only matters what people believe is true.”
Paul Watson, Co-founder of Greenpeace

Addenda #86 – August 2025

Re: Ch. 16, U.N. 30x30 plan

SDG 14 – Conserve and sustainably use the oceans, seas and marine resources for sustainable development

Re: Ch. 8, 2050 Net-Zero Emissions; Impossible!!

SDG 7 – Ensure access to affordable, reliable, sustainable and modern energy for all

Ref: Addenda #35 – January 2024, Addenda #41 – February 2024

Proposed wind farms 'devastating' for fishers

BBC; September 23, 2024

Proposals to expand planned wind farm sites off the Devon and Cornwall coast could devastate the fishing industry, fishermen have warned. Dave Stevens, who has fished off Newlyn for 30 years, said new offshore wind development would not be good for the industry. It would be a devastating blow if that went ahead.

The Crown Estate said "offshore wind has a critical role to play in supporting the UK's energy transition". It said the sector created "countless new opportunities within communities for skills and jobs, both onshore and at sea".

Cornwall fishermen fear for livelihoods as offshore wind farms pose 'greatest change' the industry has faced

Sky News (UK), January 1, 2025

Fishermen in Cornwall fear proposals for mass offshore wind farms could destroy their businesses and pose the "greatest change" the fishing industry has ever faced.

The Crown Estate - which owns much of the country's seabed - has published plans for what it calls "areas of opportunity" for offshore wind farms in waters off the North East and the Celtic Sea around South Wales, Devon and Cornwall.

David Stevens from the Cornwall Fish Producers Organisation told Sky News fishermen fear they will be squeezed out of already busy waters... "This is probably the greatest change to our fishing patterns and businesses we're ever going to encounter, we're going to be squeezed out of the way... by all these wind farms all of a sudden taking up ground that we traditionally fish."

He added: "I've looked at the proposals to the south where I work and it would completely close down around about 60% to 70% of the area I work. So my business plan - it's gone out of the window."

The offshore wind turbines destroying Britain's fishing trade

The Telegraph; August 9, 2025

"We can't go into the areas between the turbines," Ken Bagley [former Lincolnshire fisherman] says. "If we towed our fishing gear through a wind farm, we'd be snagging on something in no time. And with the tidal currents and winds we get round there it'd get really dangerous."

Around Britain's coast other fishermen tell similar stories of exclusion from fishing grounds where they and their forebears once reaped rich harvests.

The area Ken Bagley is referring to is the Lincs Wind Farm, a 14 square mile wind farm located 5 miles off the coast of Skegness on the eastern coast of England. Lincs Wind Farm consists of 75, 330-foot-tall turbines mounted on 16-foot diameter, 400-ton steel monopile foundations anchored to the seabed. Two underground high voltage cables partially buried under the seabed connect the turbines to an offshore substation.

The Environmental Study prepared by Centrica Energy in 2007, emphasized the “need for renewable energy” due to the UK governments energy policy, which mandates ‘net-zero emissions’ by 2050 and 100% “Clean Power” generation by 2030. The study predicted that there would be habitat loss and disruption resulting in “minor adverse impacts” on organisms and fish due to installation of the turbines and cables but claimed that the spawning and nursery area for fish would not be affected. The report said nothing about the effect the wind farm would have on the fishermen, the fishing industry or the food supply for local communities, because, of course, nothing else matters besides achieving climate goals!

As the Prime Minister has made clear, clean power is an urgent priority for our country. The clean power sprint is the national security, economic security, and climate justice fight of our time – and this plan gives us the tools we need to win this fight for the British people.
Edward Miliband, Secretary of State for Energy Security and Net Zero, U.K., April 15, 2025

The fishermen are still allowed to fish in the areas between the turbines, which are spaced 500-feet apart. But the threats of the tidal currents and collision with the monopiles or other vessels and potentially snagging the high voltage cables buried just 3-feet below the seafloor, means that few fishermen will actually fish there. Fishermen used to profit from once rich harvests of cod, sole, whiting and mussels. They are still there in the waters of the wind farm but are no longer available to the fishermen.

There are 3,000 wind turbines installed across 45 wind farms, covering thousands of square kilometers of ocean. Developers are planning even more offshore wind farms, much larger than Lincs. *Dogger Bank* is being built across a shallow area of the North Sea once among Europe’s richest fishing grounds. It will cover around 1,300 square kilometers [808 square miles] once complete. The UK’s existing offshore turbines have a capacity of about 16 gigawatts – but last week Ed Miliband, the Energy Secretary, confirmed plans to *triple* that capacity by 2030 to meet the U.K.’s 100% Clean Energy production target.



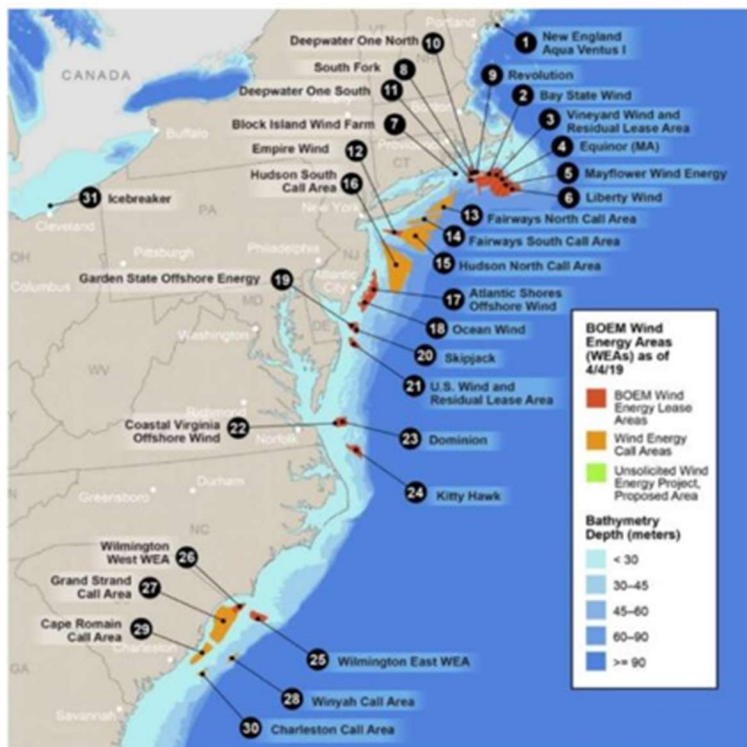
Map of UK operational and planned offshore wind projects
Source: RenewableUK, Energy Pulse

The United Nations 30 x 30 plan calls for the “appropriation” of 30% of all the oceans, making them off limits for human use by the year 2030, to “conserve” and “protect” them. Of course, none of the area owned by the Crown Estate will be “appropriated” to achieve this plan...

President Biden promoted his own version of the U.N. plan in the United States, calling it the America the Beautiful initiative in May 2021. His plan outlined a “locally led and voluntary” nationwide goal to conserve 30 percent of U.S. lands and waters by 2030.

The 2022 *Inflation Reduction Act* set aside \$18 billion for United States Department of Agriculture (“USDA”) conservation programs, to take farmlands out of use, cutting emissions from agricultural use. The Inflation Reduction Act also set aside \$122.5 million for the *America the Beautiful Freshwater Challenge*, which set the goal to protect, restore, and reconnect 8 million acres of wetlands and 100,000 miles of our nation’s river and streams by 2030.

The president declared many historical sites as national parks, to ensure land conservation of those areas. He also canceled multiple mineral leases for copper mines that would have aided the push for renewable energy and electric vehicles, essentially conserving those lands to appease environmental groups and work toward his own 30 x 30 plan goals. The Biden administration also banned oil and natural gas drilling leases for more than 625 million acres of U.S. ocean waters, including the entire East Coast and Eastern Gulf of Mexico.



Instead issuing leases for oil and natural gas production, the Biden administration continued to issue leases offshore wind farm development.

As of July 2025, there are three operational offshore wind farms on the eastern coast of the U.S. with a combined generation capacity of 174 MW.

Lease areas #7, #8 and #22.

Three additional wind farms are currently under construction, with a combined generation capacity of 4,150 MW.

Lease areas #3, #9 and expansion of #22.

Twelve additional wind farms off the eastern coast have received operations approval from the Bureau of Ocean Energy Management and are in various stages of development. Their combined generation capacity is 14,428 MW. Five additional leases totaling 373,267 acres off the coast of California were mapped out, but no development has been done on these yet.

I'm sure that every environmental study done during the process of receiving permitting approvals from the National Oceanic and Atmospheric Administration (NOAA) had claims similar to the Lincs Wind Farm study. The Block Island Wind Farm (lease area #7 on the BOEM lease map) was the first commercial offshore wind farm in the United States, located 3.8 mi from Block Island, Rhode Island in the Atlantic Ocean. The five turbine, 30 MW project has been providing electricity to Rhode Island residents since December 2016, so there is a definite timeframe over which to understand the effects of offshore wind projects on the environment, versus the claims made in the original permitting documents, below.

1.1.2. Marine Mammals in the Action Area

The proposed activities could adversely affect the following marine mammal species under our jurisdiction: Atlantic white-sided dolphins (*Lagenorhynchus acutus*), short-beaked common dolphins (*Delphinus delphis*), harbor porpoises (*Phocoena phocoena*), minke whales (*Balaenoptera acutorostrata*), fin whales (*Balaenoptera physalus*), humpback whales (*Megaptera novaeangliae*), North Atlantic right whales (*Eubalaena glacialis*), gray seals (*Halichoerus grypus*), and harbor seals (*Phoca vitulina*).

1.2. Purpose and Need

The MMPA prohibits “takes” of marine mammals, with a number of specific exceptions. The applicable exception in this case is an authorization for incidental take of marine mammals in Section 101(a)(5)(D) of the MMPA.

Section 101(a)(5)(D) of the MMPA directs the Secretary of Commerce (Secretary) to authorize, upon request, the incidental, but not intentional, taking of small numbers of marine mammals of a species or population stock, by United States citizens who engage in a specified activity...

Purpose: The primary purpose of our proposed action—the issuance of Authorizations to Deepwater Wind—is to authorize (pursuant to the MMPA) the take of marine mammals incidental to Deepwater Wind’s proposed activities.

Source: Final Environmental Assessment on the Issuance of Incidental Harassment Authorizations to Deepwater Wind for the Take of Marine Mammals Incidental to Construction of the Block Island Wind Farm and Block Island Transmission System; National Oceanic and Atmosphere Administration, August 2014

Fact #1: The NOAA determined that several marine mammal species “could” be adversely affected during construction of (and possibly the operation of) the Block Island Wind Farm.

Fact #2: All marine mammals listed above, fall under the Marine Mammals Protection Act, to protect them from declining populations due to human activities. It prohibits the hunting, capturing, and harassment of marine mammals in U.S. waters. In addition, most of the species that “could” be adversely affected, are on the *Endangered Species* list.

Critically Endangered - North Atlantic right whale; fewer than 500 in existence, 400 of them in the North Atlantic

Endangered/Depleted – fin whale

Endangered/Recovering – humpback whale

Special Concern – harbor porpoise

Secure/Stable – grey seals, harbor seals

Fact #3: The NOAA approved permits presented by the Block Island Wind Farm developer to allow the “harassment” of marine mammals on the endangered species list during the yearlong construction of the wind farm, which would result in the “temporary modification” of those protected and endangered mammals but “no injury or mortality” is *anticipated*. **

Fact #4: There are multiple threats to marine mammals during the construction of any wind farm. These mammals can be injured or killed by strikes from ships moving or installing foundations and turbines, and underwater noise levels from construction can cause irreparable hearing damage, considered as “harassment” by the NOAA.

After construction is complete, the electromagnetic field produced by underwater cables transmitting the high voltage to substations on shore, has been shown to adversely impact various underwater species.

Source: Final Environmental Assessment on the Issuance of Incidental Harassment Authorizations to Deepwater Wind for the Take of Marine Mammals Incidental to Construction of the Block Island Wind Farm and Block Island Transmission System; Office of Protected Resources/National Marine Fisheries Service/National Oceanic and Atmospheric Administration, August 2014

Opponents say Block Island wind farms are causing problems across prime fishing grounds

National Wind Watch; March 17, 2018

“It’s true that the area where the turbines are, have created a habitat that attracts fish, which is good; but in the area where the cable lines extend to the mainland, it’s completely devoid of fish,” said Michael Pierdinock, chairman of the Massachusetts Recreational Alliance, which represents about 50,000 recreational fishermen. “These used to be fruitful fishing grounds.” The fishermen also raised questions about the impact of electromagnetic waves pulsing across the seafloor on species such as sharks, which navigate and hunt in part by sensing electrical currents, and how rotating turbine blades could impede their ability to navigate with radar.

Wind power companies have dismissed most of their concerns, and fishermen have become increasingly frustrated, saying that they’re being ignored... “There’s zero scientific evidence for that,” said Aileen Kenney, vice president of permitting and environmental affairs at Deepwater Wind. “We’ve heard of no decline of fishing activity around the project.”

There has been an increasing “back and forth” argument between opponents and supporters of wind farms regarding increasing numbers of dead whales washing up onto coastal beaches. In 2022 alone, there were more than 60 recorded whale deaths of all species on the eastern coast, a number which has increased markedly ever since the offshore wind industry started to ramp up in 2016.



Wind farm supporters claim there is no *scientific evidence* (where have we heard *that phrase* before???) that offshore wind turbines are responsible. Wind farm opponents, including environmental activist groups, claim whale deaths are *strongly correlated* with wind industry activity.

Acoustical surveying of the ocean floor, pile driving to install the 400-ton monopile turbine supports and cable laying ship ‘thrusters’ can cause deafness which can lead to the deaths of mammals in the construction areas. Or it can drive mammals into areas that have higher shipping traffic, leading to deadly collisions; ship strikes, and entanglement are the two leading causes of whale deaths. Environmentalists have said the solution to these accidents and deaths is to restrict the number of harassment authorizations developers apply for. After all, power generating plants have restrictions on the amount of greenhouse gases they can emit. But this would make the building of wind farms more expensive and lengthen the time it takes to complete them.

While the BOEM and NOAA may refuse to approve “incidental take” permits, the routinely approve “harassment permits.” The Block Island wind farm developers requested authorization for the “incidental, but not intentional, taking of “small numbers of marine mammals” in the form of harassment, in their permit applications.

Table 8. Deepwater Wind’s estimated take for the BIWF project.

Common Species Name	Maximum Seasonal Density (per 100 km ²)	Estimated Take by Level B Harassment	Maximum Seasonal Density (per 100 km ²)	Estimated Take by Level B Harassment	Total Estimated Take
Atlantic white-sided dolphin	7.46	201	1.23	13	214
Short-beaked common dolphin	8.21	221	2.59	28	249
Harbor porpoise	0.47	13	0.74	8	21
Minke whale	0.44	12	0.14	2	14
Fin whale	1.92	52	2.15	23	75
Humpback whale	0.11	3	0.11	2	5
North Atlantic right whale	0.04	2	0.06	1	3
Gray seal	14.16	77	14.16	30	107
Harbor seal	9.74	53	9.74	21	74

Block Island wind farm developer, Deepwater Wind, estimated that 484 dolphins and porpoises, 181 seals and 97 whales would suffer “temporary modification” of their behavior as the NOAA described it.

Deepwater Wind’s numbers don’t distinguish between 97 whales being harassed once, or 1 whale being harassed 97 times, leading to hearing loss and deafness.

The difference could be fatal for the whales affected long-term, which rely on hearing for navigation, communication and feeding.

Four whales die in 4 days: Wind farms creating ‘death zone’ at sea says ex-Greenpeace boss
New York Post; May 8, 2023

The four-day run of death began in Eastham, on Cape Cod, Mass., on Thursday, with a second minke found at York, Maine, on Friday, and the final corpse at Gloucester, Mass. on Sunday.

At least 36 “large” whales have washed up along the East Coast since Dec. 1, according to data from the National Oceanic and Atmospheric Administration.

This year’s mortalities are on pace to shatter 2017’s tally of 34, federal data shows.

2017–2025 North Atlantic Right Whale Unusual Mortality Event

Since 2017, dead, seriously injured, or sublethally injured or ill North Atlantic right whales have been documented, necessitating an Unusual Mortality Event declaration and investigation.

Marine Life in Distress; NOAA Fisheries website

The NOAA article noted 41 “confirmed deaths”, 39 serious injuries and 77 injuries or illnesses of North Atlantic right whales between 2017 and 2025. Coincidentally, this is the time period in which wind farm projects were under construction from Maine to Virginia.

2016–2025 Humpback Whale Unusual Mortality Event Along the Atlantic Coast

Since January 2016, elevated humpback whale mortalities have occurred along the Atlantic coast from Maine through Florida.

Marine Life in Distress; NOAA Fisheries website

This NOAA article noted 257 “confirmed deaths” of humpback whales between 2016 and 2025, 149 of them occurring in waters where active construction of wind farms was taking place. Only 8 of the deaths were south of the lease areas shown on the BOEM map.

Study finds human-caused North Atlantic right whale deaths are being undercounted

A study co-authored by scientists at the New England Aquarium has found that known deaths of critically endangered North Atlantic right whales represent a fraction of the true death toll. This comes as the death of a calf and recent sightings of entangled right whales off the southeastern United States raise alarm.

New England Aquarium; Press Release, February 24, 2021

The New England Aquarium study found that 83% of right whales entangled or injured initially survive, but their health becomes compromised, and they eventually die and sink so their carcass is never found or counted. Granted, all this “scientific evidence” cannot be directly linked to offshore wind farm construction, but the numbers of deaths and timeframe would indicate there is a connection between them.

In 2022, nine Atlantic coast states began working to establish the *Regional Fisheries Compensatory Mitigation Fund*, to “provide financial compensation for economic loss created by offshore wind development off the Atlantic Coast.

With a growing investment in renewable energy and the development of offshore wind energy systems, there is a recognizable need to offset potential losses and/or costs incurred by the surrounding fishing industries with mitigation measures, including financial compensation.

“Scientific evidence” cited by the wind industry claims that construction and operation of wind farms will not have long-term “adverse effects” on marine mammals or the fishing industry. But coastal states were finally admitted this was *not* true and agreed to provide financial compensation to the fishing industry and communities affected by wind farms. Developers of offshore wind projects will be assessed fines for the damage their projects have done, and consumers of that “clean energy” will be assessed additional “System Benefit Charges” so the developers can recover that money and continue with those projects. After all, net-zero emissions and “affordable, reliable, sustainable and modern energy for all” is a non-negotiable goal of Agenda 2030. It MUST be achieved at all cost!!

Are there any effects on the environment other than to birds, fish and mammals? Of course there are, but you will never hear about them in the mainstream media or from supporters of “clean, green” sustainable and renewable energy.

See also Addenda #63 – September 2024; *Protecting the Environment, Protecting and Halting Biodiversity Loss??* For examples of approved “takes” and habitat destruction in the construction of solar farms.

Special Investigation: Toxic wind turbines

National Wind Watch; March 23, 2014

Damning evidence of wind farms polluting the Scottish countryside can today be revealed by The Sunday Post.

Scotland’s environmental watchdog has probed more than 100 incidents involving turbines in just six years, including diesel spills, dirty rivers, blocked drains and excessive noise.

Alarming, they also include the contamination of drinking water and the indiscriminate dumping of waste, with warning notices issued to a handful of energy giants.

Lubricant leaks from Essex wind turbines; raises concerns over maintenance, accountability
CTV News (Canada); April 16, 2025

Wind turbines in the Town of Essex are drawing fresh scrutiny from local officials after reports of lubricant leaks, with municipal leaders raising concerns about long-term maintenance and the future of aging infrastructure.

Mayor Sherry Bondy said residents have been reporting issues with turbines for years, but more questions are surfacing now about what happens as the structures age and contracts begin to expire.

The AIM Harrow Wind Farm, which has 24 turbines in operation, is one of the wind energy facilities in the area. Its CEO, Denny Richard, confirmed lubricant staining was identified on 11 turbines over the past couple of years... “The cause of the staining has been investigated by the manufacturer and maintenance service provider of the turbines, who identified a loss of a limited amount of lubricant, which is commonly used in turbines, as the cause,”

Windmill Aflame: Why Wind Turbine Fires Happen, How Often and What Can Be Done About it

Interesting Engineering (scientific news publisher); November 21, 2015

According to an article published by Fire Safety Science, the peer-reviewed publication of the International Association of Fire Safety Science, one of the major challenges faced by the global wind energy industry is the tendency of wind turbines to catch fire, a problem that the article claims is not being fully reported... The research team found that ten times the number of fires are occurring worldwide than are actually being reported....

“Wind turbines are viable sources of renewable energy that can assist the world to reduce emissions and help wean us off fossil fuels. However, fires are a problem for the industry, impacting on energy production, economic output and emitting toxic fumes. This could cast a shadow over the industry’s green credentials.

There are hundreds of thousands of wind turbines that have been installed in a global effort to reduce carbon emissions, and there will be hundreds of thousands more installed in coming years, as we get closer to those 2030 – 2050 climate alarmist dates. I’ve already detailed some of the issues with wind turbines, which include decommissioning, recycling and blade failures. But perhaps the most disturbing environmental problem created by wind turbines is pollution from the fossil fuels that these turbines use to create that “clean green” sustainable energy.

Ironic, isn’t it, that in the effort to destroy the oil industry and replace fossil fuels, no one will admit they are an integral part of wind turbines? The fact is that each wind turbine contains as much as 370 gallons of oil for lubrication, hydraulics and gear box operation, and despite all precautions, there is the potential for leaks into ocean waters. The U.S. Department of the Interior published a 2013 report titled, *Environmental Risks, Fate, and Effects of Chemicals Associated with Wind Turbines on the Atlantic Outer Continental Shelf*. The report identified the volumes and types of chemicals present in offshore wind turbines and calculated the environmental impacts of potential “catastrophic spill” scenarios.

Besides the hundreds of gallons of lubricants in the turbine itself, offshore electrical service platforms which transmit power to an onshore substation or power grid contain tens of thousands of gallons of other contaminants including electrical insulating oil and diesel fuel. The report calculated multiple “spill-causing events”, including normal operation, maintenance and transfer of fluids, spills from vessels transporting fluids to and from the wind farm, collisions, hurricanes, earthquakes and other natural disasters. The report stated that “under an extremely unlikely spill scenario, a total of 68,000 gallons of oil in the entire complex could be released into the environment.”

Another study published in 2025 by the Bureau of Ocean Management titled, *Assessment of Oils and Chemicals Associated with Offshore Wind Facilities and Potential Environmental Impacts on the Atlantic Outer Continental Shelf*, concluded “The MMPD (maximum most-probable discharge) for Mixture 1 oils (hydraulic oil, synthetic ester oil, and diesel) could contaminate tens to hundreds of kilometers of shorelines above thresholds.” As the design of wind turbines advances, more turbines are being built with greater generating capacity. By the mid-2030s, offshore wind turbines are projected to grow to 500-feet in height and generate as much as 17 MW, requiring even more lubricants and potentially more spills...

Addenda #87 – August 2025

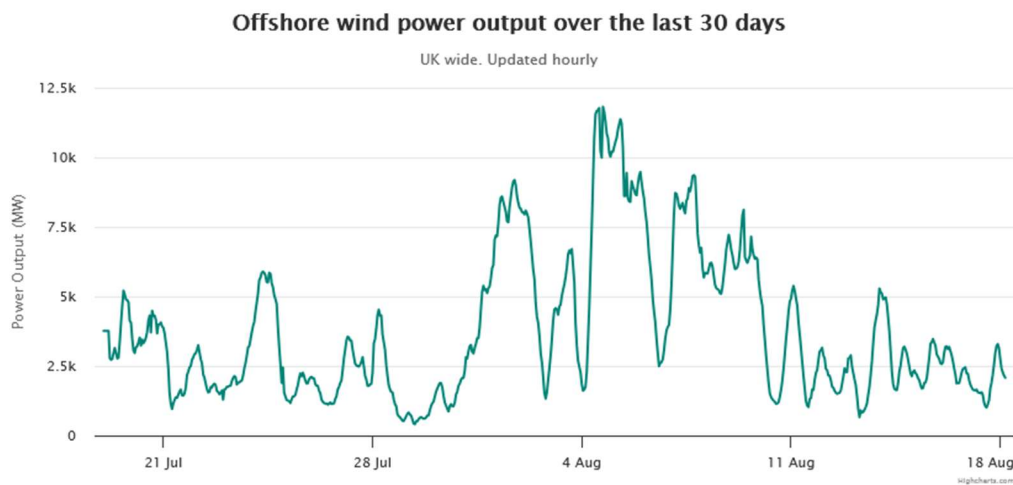
Re: Ch. 8, 2050 Net-Zero Emissions; Impossible!!

SDG 7 – Ensure access to affordable, reliable, sustainable and modern energy for all

In Addenda #31 – January 2024, I explained that electricity produced by wind farms is measured in two ways; rated or installed capacity (what all wind turbines are rated to produce at full output) and average capacity factor. According to The Crown Estate Offshore Wind Report 2024, the UK has an installed capacity of 15.9 GW, capable of powering more than half of all UK homes.

GW = 1 gigawatt = 1 billion watts / MW = 1 megawatt = 1 million watts / 15.9 GW = 15,900 MW

But “clean green” wind power is not a *reliable* source of energy; it must be supplemented with reliable energy sources that can be brought online almost instantaneously. The graph below shows the total electricity generated by all of the UK's offshore wind turbines over a 30-day period from July 19 to August 18. Remember, the total installed *capacity* of all offshore wind turbines in the UK is 15.9 GW, or 15,900 MW. On Monday, August 4th at 5 pm, total *output* reached a peak of 11,822 MW or 11.822 GW. This output equals 74% of total installed capacity, so the wind was blowing pretty strongly to produce this much energy. Six days prior to this peak, at 9 am on July 29th, total output was just 412 MW. That's just 3% of installed capacity. Eight days after the peak, at 7 am on August 12, total output was 622 MW, just 4% of installed capacity.



Source:
The Crown Estate
Our business:
Marine
Offshore wind

Consider; The installed capacity of all offshore wind turbines is capable of powering “more than half” of all UK homes (lets assume more than half means 52%) The other 48% of homes are powered by fossil fuel sources in this “best case” scenario.

I don't know of any better way to prove that renewable energy is not a reliable power source, and cannot fulfill Sustainable Development Goal #7, *Ensure access to affordable, reliable, sustainable and modern energy for all*, than to look at this graph.

Addenda #88 – August 2025

Re: Ch. 8, 2050 Net-Zero Emissions; Impossible!!

SDG 7 – Ensure access to affordable, reliable, sustainable and modern energy for all

North Atlantic wind farms face critical fatigue risk, report warns

TGS | 4C Offshore; July 14, 2025

Offshore wind turbines in the North Atlantic are at risk of failing years before the end of their expected lifespan, a new report has warned.

The findings, published by London-based Lloyd's Register, showed that the joints of some support structures, such as jacket foundations, can experience enough wear to reduce their service life by as much as a third.

The case study evaluated a North Atlantic offshore wind farm comprising 60 to 70 turbines, typically designed for 25 years of commissioning with a fatigue design factor of three, equating to a 75-year minimum fatigue life.

The study found that a critical joint in the jacket foundation would reach its fatigue limit after just 52 years.

Wind turbines are ageing – what happens next?

Power-technology.com; March 18, 2024

With an average lifespan of 25 years, a high proportion of wind turbines across the world are approaching retirement.

Wind turbines are not always decommissioned immediately after their working life. Depending on their condition and functionality, they are sometimes refurbished or allowed to continue operating (albeit less efficiently) until they become economically unfeasible.

How sustainable are offshore wind turbines to build, and how long do they last?

North Coast Offshore Wind;

The expected life expectancy of an offshore wind turbine is approximately 20 to 30 years. In 2016, the British company Vattenfall successfully decommissioned (2) some of the first offshore wind turbines ever installed after two decades of operation. Once a turbine is decommissioned, the site can either be “repowered,” in which a new turbine is placed there, or infrastructure can be fully removed, or allowed to remain in place to act as artificial reefs, and the site abandoned.

The 20-Year Lifespan of Wind Turbines: What It Means for Sustainability

Green Fingers; March 7, 2025

Wind turbines, a central component of the global push for renewable energy, have an operational lifespan of approximately 20 years. As these turbines age, questions regarding their future loom large. Are they destined for landfills, or can they be refurbished, repowered, or recycled? This challenge has significant implications for the sustainability of renewable energy infrastructure worldwide.

These concerns have become more pressing as wind farms across Europe, the United States, and other regions approach or exceed the 20-year mark. Studies indicate that if no recycling measures are implemented, millions of tonnes of turbine waste could end up in landfills by 2050.

Fact #1: Wind farms, especially those built in the ocean, don't last forever.

Fact #2: As wind turbines age, their output decreases, just as solar panels do.

Fact #3: When wind farms are no longer “economically feasible”, developers have 2 choices
decommission and deconstruct = loss of power to the grid, recycling challenges
repower (replace) = a *very* expensive process

Wind speed is the critical factor in determining the output of an offshore wind farm. This was demonstrated in Addenda #85 – August 2025, where the output of all UK wind farms combined fluctuated between 74% and 3% of installed capacity (rated output). Offshore wind projects tend to have higher capacity factors, often exceeding 45%, compared to onshore projects averaging around 35-40%. The Empire Wind 1 wind farm currently under construction 15 miles off Long Island, NY, will provide electricity directly to the New York City electrical grid. This project has an *installed* capacity rating of 816 MW and has been promoted as being capable of powering 500,000 New York homes...

That's *if* all 54 wind turbines are running at their full 15 MW capacity, at all times.

If Empire Wind 1 was operational and running at a 45% capacity factor, then it would only be capable of fully powering 225,000 New York homes, not the 500,000 promoted. Or it would only be capable of providing *less than half* the electricity needed to power all of those 500,000 homes... To provide less than half the lighting you need to see in the dark, to power the appliances needed to cook and heat your food, to keep your food from spoiling and your drinks cold, to charge your phones and electronics so you can communicate with others, to heat your house in the winter or cool it in the summer...

As Empire Wind 1 ages, its output will decrease by about 12% over its 20-year life span, providing even less electricity to power increasing loads required to meet New York's 'electrification' mandates. At the end of that 20-year lifespan, Empire Wind 1 will face decommission or repowering. The cost to purchase, transport and install an offshore wind turbine runs between \$2,000 and \$3,000 per kW. Replacing the 15-MW wind turbine generators installed in Empire Wind 1 would cost between \$30 million and \$45 million *each*, before figuring any bulk purchase discounts or financing. Both options will cost ratepayers hundreds of millions in additional costs, requiring double digit rate hikes every three years, without end, to continually maintain and replace those turbines.

In contrast to the short lifespan of wind turbines, nuclear and natural gas power plants can operate for more than 50 years. The Nine Mile Point nuclear power plant in Scriba, New York, is America's oldest working nuclear power plant. Reactor Unit #1 has been operational since December 1969, 56 years ago. There are 61 power plants in New York that burn natural gas as their primary, or only fuel source to generate electricity. More than half of them were built before 1996 and the oldest was built in 1952.

So in answer to the question *How sustainable are offshore wind turbines...* not very. They're expensive to build and maintain, they have a short life span and they have to be replaced at even higher costs.

Addenda #89 – August 2025

Re: Ch. 17, S.D.G. Enforcement by Global Organizations

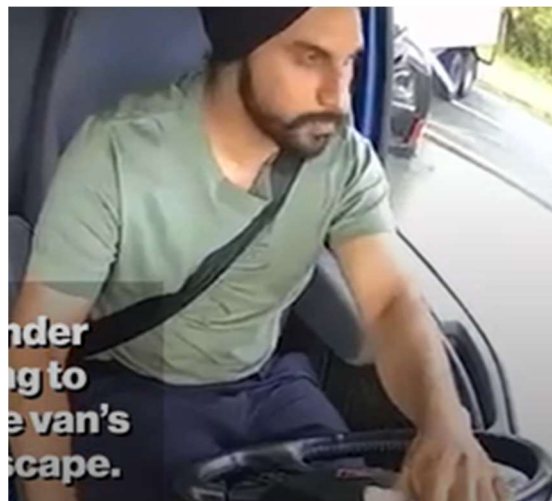
SDG 10.7 – U.N. Migration Policies

State Road 91, also known as the Florida Turnpike, is a six lane highway that begins in North Miami Beach and ends near Wildwood in Central Florida, approximately 460 miles to the north. The Florida Turnpike is one of the busiest toll roads in the country, with more than 3 million drivers using this route every day. The turnpike is also a key route for semi-trucks and freight carrying vehicles heading between Fort Lauderdale, Miami, Orlando, and other key cities. The turnpike is also the site of tens of thousands of accidents each year, and with a posted speed limit of 70mph (which most drivers ignore) many of them are fatal.

On August 12, a minivan carrying five South Florida residents travelling on the turnpike hit a commercial tractor trailer broadside in Fort Pierce. Two occupants of the van were killed instantly, likely decapitated as the minivan crashed into the side of the trailer at highway speeds and became wedged under it. A third person was taken by helicopter to the hospital where they died a couple hours later. The two other occupants of the van were not *physically* injured. The reason that the minivan hit the side of the trailer, is because the driver attempted to make a sudden, illegal U-turn, across three lanes of traffic. The minivan traveling in the inside lane could not stop in time to avoid the accident.



Singh looking over his shoulder, sees the minivan heading for his trailer, as he makes an illegal U-turn.



The minivan now wedged under the trailer, is visible from the in-cab camera footage.

The driver, Harjinder Singh, has been charged with three counts of vehicular homicide. Investigators who questioned Singh two days after the accident, said he failed the English Language Proficiency assessment, providing correct responses to just 2 of 12 verbal questions and only accurately identifying 1 of 4 highway traffic signs. They also found out that Singh was in the U.S. illegally, having crossed the southern border in 2018.

Obtaining a commercial driver's license (CDL) in most states requires passing several steps including medical testing, verbal and written testing, a motor vehicle background check and proof of residency. Since Singh barely spoke English, couldn't identify traffic signs and was not in the U.S. legally, he shouldn't have been issued a CDL. But Washington state gave it to him anyway in 2023. In 2024, California issued Singh a limited-term/non-domiciled commercial driver's license, and he began driving for White Hawk Carriers, a trucking company with a history of safety violations and drivers working with suspended licenses. Singh was delivering a load in Florida for White Hawk when the accident occurred.

Both outrage over the accident, and pushback by pro-illegal immigration supporters was almost immediate. Tricia McLaughlin, Homeland Security assistant secretary for public affairs noted that the Trump administration rejected a work authorization for Singh in September 2020 because he was an illegal immigrant and was being processed for deportation. McLaughlin also noted that Singh's work permit was approved by the Biden administration in June 2021. California Governor Gavin Newsom claimed that it was the Trump administration that issued Singh a work permit for his CDL, a claim that was immediately disputed by McLaughlin; "The state of California issues Commercial Drivers Licenses. There is no national CDL." In fact, President Trump signed an Executive Order in April directing enforcement of a Department of Transportation rule requiring commercial drivers in the U.S. to meet English-proficiency standards, something the Gavin Newsom's California never bothered to enforce.

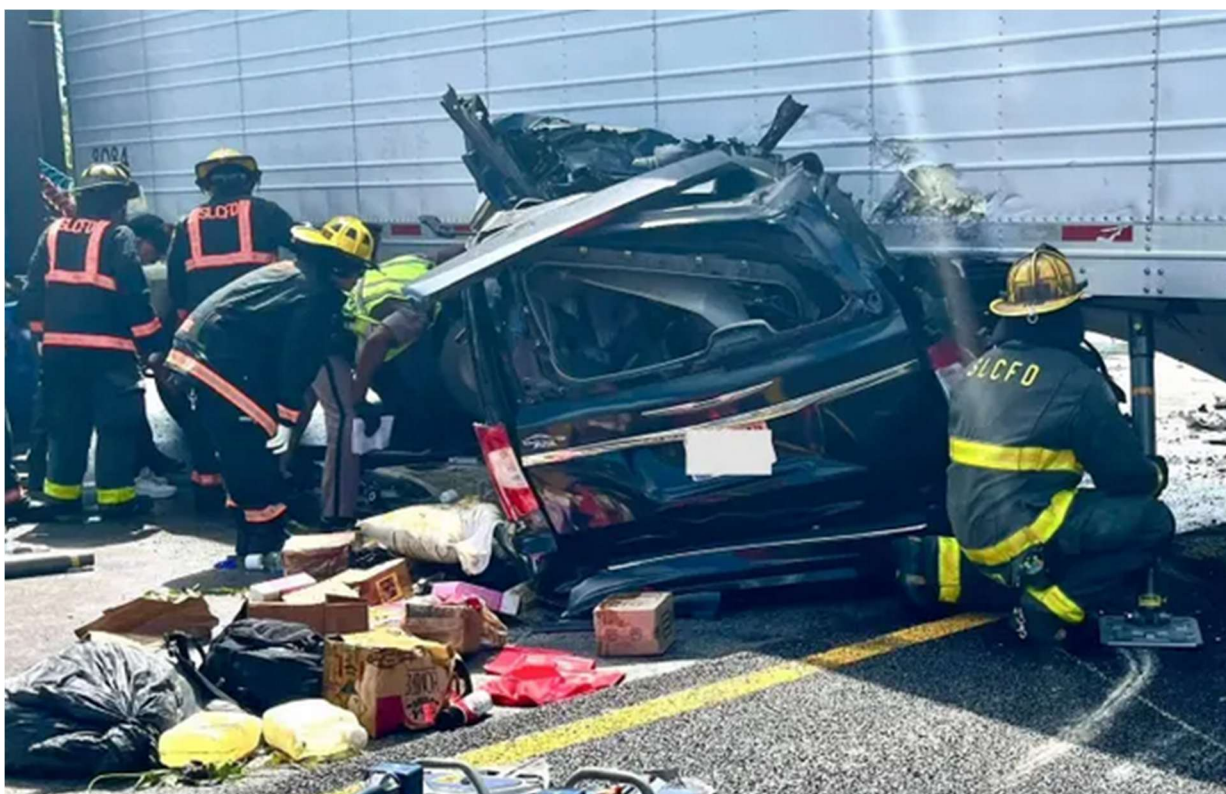
Millions sign petition demanding MERCY for Indian illegal migrant trucker who killed three in Florida with forbidden U-turn

Daily Mail; August 25, 2025

More than 2.6 million people [worldwide] have signed a petition urging Florida Gov. Ron DeSantis to show leniency towards an illegal migrant truck driver who allegedly killed three people in a horrific highway crash.

The petition was created and circulated by *Change.org*, a left-wing website that hosts petitions generally related to politics or public policy, most noted for its "Justice for George Floyd" petition, which gathered 11 million signatures in 2020. The multiple petitions ask for leniency and a reduced or commuted sentence for Singh. *Advocate for leniency in Harjinder Singh's sentencing* has gathered more than 77,000 signatures, while multiple petitions to reduce the potential 45-year sentence if convicted, have gathered more than 9,000 signatures and describe Singh as a hard working family man, the same language used to describe accused human trafficker and illegal immigrant Abrego Garcia. Petitions call for "fair and compassionate" sentencing to a man involved in "a regrettable accident." Except that Singh has yet to show any signs of regret or remorse for the accident that claimed three victims. "Punishing Mr. Singh with such severity does not serve justice nor does it bring closure or healing to the victims' families" states one of the petitions.

Commute Sentence for Harjinder Singh, a Sikh victim of circumstance, has almost 12,000 signatures.



Firefighters and Paramedics attempting to aid five individuals in the minivan after the crash

Singh was arrested on a fugitive warrant by U.S. Marshals in California, where he fled to the day after the crash. He was extradited to Florida, charged with three counts of vehicular homicide and immigration violations and law enforcement officials have denied him bond. Singh is being held in the St. Lucie County Jail, while he waits for his trial. ICE has issued a detainer for Singh, which Florida will cooperate with. By Florida state law, vehicular homicide is a second degree felony, punishable by up to fifteen years in prison and a \$10,000 maximum fine. If Singh, who is 28-years old, is found guilty of all three charges, he could be facing up to 45 years in prison and a \$30,000 fine.

A petition created by *Collective Punjabi youth*, has gathered nearly 3 million signatures. The petition asks Governor Ron DeSantis and the Florida Board of Executive Clemency to “re-examine and reduce the sentence” of Singh. The reasoning given in the petition is that the accident was tragic, but not a deliberate act. The group claims that there is no “criminal intent or history”, and therefore Singh should receive a much reduced sentence if convicted. To back up their request, the group cites a 2019 case in which a 23-year old U.S. resident from Cuba, Rogel Lazaro Aguilera-Mederos, crashed into 12 cars and three other semi-trailer trucks, after he lost control of his semi-trailer truck on a downhill grade. The crashes resulted in multiple fires and explosions, killing four people. Prior to losing control of his vehicle, Aguilera-Mederos was observed speeding and forcing a pickup truck off the road. Police reports showed that the truck was travelling nearly 80 mph just before the accident happened, causing the driver to lose control of his vehicle.

Despite there being several emergency runaway truck ramps on the downhill grade, witnesses said the driver never attempted to use them. Aguilera-Mederos was found guilty on 4 counts of vehicular manslaughter and sentenced to 110-years in prison. The ACLU and the League of United Latin American Citizens led the charge to have the sentencing reduced and almost 5 million people signed a Change.org petition to have the sentence commuted or granted clemency. Colorado Governor Jared Polis, a wealthy Democrat and the first openly gay man elected as governor, bent to the wishes of minority lobbying and commuted the sentence to just 10-years. This, is what the *Collective Punjabi youth* wants to see happen in the Harjinder Singh case in Florida.

Let's look at the facts uncovered so far in the case against Singh...

Singh violated U.S. Immigration Law by entering into the United States illegally in 2018. In seven years living here Singh never bothered to learn how to read, write or speak English. Singh was issued a commercial driver's license (CDL) by the state of Washington in 2023, even though he failed to meet federal requirements of residency, knowledge and skills. Singh was issued a CDL by the state of California in July 2024, even though he still could not meet Department of Transportation requirements.

Even though he was issued a CDL from multiple states, Singh never bothered to learn basic traffic signs. Singh didn't know or didn't care to follow the "No U-turn Sign", causing the deaths of three people.

Even though Singh has no prior criminal history (if you ignore willful violation of federal immigration law) or criminal intent when causing the accident, he made no attempt to assimilate into the cultural traditions of the country he lived in for seven years. He didn't bother to learn to proficiently read, write or speak English and he didn't bother to learn the rules of the road while driving a 70-foot long, 80,000 pound commercial vehicle. If this doesn't fit the definition of reckless or negligent behavior, I don't know what does.

Singh has obviously benefited from his status as a minority person of color and the policies of progressive blue states he lived and/or worked in. His acceptance of these conditions apparently led Singh to believe he is deserving of certain privileges the rest of us are not entitled to. The victims that Singh is responsible for killing were 30-year-old Herby Dufresne, of Florida City, 54-year-old Rodrigue Dor, of Miami, and 37-year-old Faniloa Joseph, of Pompano Beach. They most likely leave behind parents, siblings, spouses or partners, and children whose lives will be forever changed by the accident Singh caused. The only thing *they* did wrong, was to be on the Florida Turnpike at the same time Singh decided to disregard a posted traffic sign and create the situation that led to their deaths.

Singh is just a symptom of our culture today, and an acknowledgement that policies of progressive politicians and the U.N. Global Compact for Migration may help migrants, but they end up affecting residents of the countries those migrants go to. Singh is now another statistic to add to that continually growing ICE National Docket for criminal Noncitizens, under the categories of homicide and traffic offenses. The three victims are another statistic to add to that continually growing list of U.S. citizens affected by illegal immigrant crimes.

Addenda #45 – (May 2024) Update September 2025

Re: Ch. 9, Progressive States Climate Policies

SDG 7 - Ensure access to affordable, reliable, sustainable and modern energy for all

State approves National Grid rate hike that will increase many household bills by \$600 a year

Syracuse.com; August 14, 2025

Syracuse, N.Y. -- Your National Grid bill is going up about 10% next month and will keep rising. Within three years, the cost of electricity and gas will increase by about \$600 a year for the average household in Upstate New York.

The state Public Service Commission voted unanimously today to approve new electric and gas rates for National Grid's Upstate territory, authorizing the company to sharply increase what it charges to maintain the system's pipes and wires.

nationalgrid

SERVICE FOR: MACKAY AVE
SYRACUSE NY 13219

BILLING PERIOD: Jul 11, 2025 to Aug 11, 2025

ACCOUNT NUMBER: 75699-82106

PLEASE PAY BY: Sep 4, 2025

PAGE 1 of 4

AMOUNT DUE: \$ 178.53

www.nationalgridus.com
CUSTOMER SERVICE
1-800-642-4272
GAS EMERGENCIES
1-800-892-2345
(Does not replace 911 emergency medical service)
OUTAGE AND ELECTRIC EMERGENCIES
1-800-867-5222
CORRESPONDENCE ADDRESS
300 Erie Blvd West
Syracuse, NY 13202
DATE BILL ISSUED
Aug 11, 2025

YOUR PAYMENT THIS MONTH		PLAN STATUS	
Budget Plan Amount	195.00	Budget Plan - Started Feb 98	
Balance Forward	-16.47	Accumulated Budget Plan charges	-1,170.00
Amount Due ▶	\$ 178.53	Accumulated Actual Charges	1,416.15
To avoid late payment charges of 1.5%, \$ 178.53 must be received by Sep 4 2025.		Amount Due Company after paying this bill	\$ 246.15

ACCOUNT ACTIVITY

Previous Balance	183.53
Payment Received on AUG 5 (Check)	THANK YOU - 200.00
Current Charges	+ 263.29

As part of our periodic review to ensure your Budget Plan amount is as even as possible, your Budget amount will change to \$ 237.00 effective with your next bill.

My National Grid bill for July – August 2025, came with the announcement that my monthly budget plan charge will rise by \$42.00 next billing period. That is a total increase over the next 12 months of \$504 to pay for the increased costs utility companies incur doing business in New York state.

Ref: A Clear and Present Danger, Threat #2 – U.N. Agenda 21/2030, Chapter 9

Ref: Addenda #45 – May 2024, Addenda #45 Update May 2025

Ref: Addenda #2 – June 2023, Addenda #21 – November 2023, Addenda #84 – July 2025

“While I appreciate that the New York Public Service Commission worked to significantly lower the outrageously high initial rate proposals, it’s still not enough. I have been crystal clear that utilities must make ratepayer affordability the priority. Since taking office, my administration has prioritized energy affordability, particularly for our most vulnerable...”
Statement from Governor Kathy Hochul Denouncing National Grid Rate Hike; August 14, 2025

There is a direct correlation to states that have “green energy” policies and increased utility costs. Of the ten states with the highest electricity rates, eight of them have 100% clean energy mandates, with the two other states also making the news recently about increased energy prices. New Jersey regulators approved rate hikes for the states four utility companies of 17.23% to 20.20% in February, more than double the increases approved in 2024. New Jersey’s electric bills now rank as the 12th highest in the nation, roughly 15% higher than the national average. Critics point to Democrat Gov. Phil Murphy's 2023 clean energy mandate as the reason for high electricity prices. Executive Order #315 cut the time to achieve 100% clean energy in-state sales from 2050 to 2035, and mandated electrification of homes, new cars and light-duty trucks.

During Murphy’s time in office, three coal-fired power plants, two natural gas power plants and one nuclear facility have closed, removing 1,829 MW of reliable generating capacity from New Jerseys electric grid. During that same period, the state added 546 MW of reliable fossil fuel generation, and 2,722 MW of unreliable solar generation capacity. Governor Murphy’s clean energy plans suffered a severe setback in late 2023 when Ørsted canceled its 2,248 MW Ocean Wind 1 and 2 offshore wind farm projects, citing rising costs, rising interest rates and supply chain bottlenecks. The New Jersey Board of Public Utilities awarded contracts for two new wind farm projects to replace Ocean Wind in January 2024, but developers have already been forced to delay construction due to... rising costs.

“The offshore wind equipment market continues to experience significant price volatility and the Company has not yet identified a solution to that volatility”.

Statement from developers Invenergy and energyRe; January 6, 2025

The resulting imbalance between new capacity added and capacity taken offline, has caused electricity prices to nearly triple over the past year, and voters are angry.

New Jersey residents' fury over soaring energy bills could hit Democrats in 2026 election

New Jersey's electric bills rank 12th highest nationally after massive rate increases, with affordability emerging as a top voter concern in the upcoming gubernatorial election.

Fox Business News; August 13, 2025

In Maryland, capacity auction prices for electricity for 2026 increased 22% from the 2025 auction, due to “shrinking supply” and rapid demand growth. Although Maryland Democrat Governor Wes Moore has claimed there’s no evidence that his accelerated green energy agenda is increasing electricity bills for residents, auction prices for electricity are more than 1038% higher than the clearing price in 2023, when Moore took office.

Note: Regional electricity transmission authority PJM conducts annual auctions to procure enough “reserve capacity” electricity to serve its customers during periods of high demand. Prices that will be paid to electricity producers are bid and determined at these auctions.

Governor Moore’s Executive Order 01.01.2024.19 set a goal of 100% clean energy by 2035. Maryland followed the same path as New Jersey, New York and other states, forcing the closure of reliable coal fired power plants while mandating renewable energy and

electrification. In 2017, the Maryland Public Service Commission approved two offshore wind projects proposed by Ørsted and U.S. Wind. Skipjack Wind's 80 turbines and MarWin's 22 turbines would generate 1,266 MW of "clean, renewable electricity" to help achieve the states clean energy goals. In 2021 the PSC approved a second U.S. Wind project, Momentum Wind.

In January 2024, Ørsted backed out of its agreement with the Maryland PSC to complete Skipjack Wind, citing supplier delays, rising interest rates and higher costs. The company said the payment amounts outlined in the agreements "are no longer commercially viable." The offshore renewable energy credits from SkipJack were transferred to U.S. Wind to give their projects an additional cost buffer. In January 2025, the Maryland PSC awarded U.S. Wind additional ORECs to U.S. Wind's rebid application, which increased the combined project to 114 turbines and total installed capacity of 2,000 MW or 2 GW. With all the bidding and rebidding, it is nearly impossible to figure out how costly the "new" Maryland Offshore Wind project really is. Offshore wind is one of the most expensive ways to generate electricity and it would not be economically viable without taxpayer support.

In the meantime, Regional electricity transmission authority PJM notified the Department of Energy that an imminent electric reliability emergency may exist that could threaten transmission reliability, due to a shortage of available electric generation supply in the region. The notice requested a waiver to allow the states remaining coal fired plant to remain in operation and suspend a previous agreement with environmental groups to limit the number of hours it can operate. *"Wagner Unit 4, a power plant in Anne Arundel County, is the only generating facility capable of preventing blackouts in the BGE zone under certain emergency conditions... As of today, the plant has only 80 hours of runtime left in 2025 — less than four days of emergency power before the lights go out."*

The PJM notice stated that without the Wagner coal plant to provide additional capacity, it may have to "shed firm load." In other words, forced blackouts for homes, schools, hospitals and businesses in Maryland.

The supply situation was entirely predictable for Maryland and other states that have followed the Sustainable Development Goals of U.N. Agenda 2030. Reliable, fossil fuel power plants are being forced to close and are replaced at a much slower rate by unreliable "clean energy" generation sources. The cost of electricity continues to soar as grid reliability falls. The additional cost of doing business in Democrat led states rises for utility companies. The emissions allowances they are forced to purchase, get passed on to ratepayers in the form of higher rates and surcharges, to provide consumers "affordable, reliable, sustainable and modern energy." Democrat leaders use funds from emission allowances and surcharges to subsidize low-income households. This "environmental justice" is nothing more than a redistribution of wealth from middle-income households to "disadvantaged communities", facilitated by "Climate Justice Working Groups" appointed by Democrat governors.

None of this is happening "by chance." It was all carefully planned by Global Elites and carried out by their willing supporters that their useful idiot supporters voted into office.

Addenda #90 – September 2025

Re: Ch. 9, Progressive States Climate Policies

SDG 13 – Take urgent action to combat climate change and its impacts

SDG 7 - Ensure access to affordable, reliable, sustainable and modern energy for all

In December 2024, the New York State Legislature passed Senate Bill S824, known as the Climate Change Superfund Act (CCSA). Democrat Liz Krueger, who sponsored the CCSA said, “The Climate Change Superfund Act is a critical piece of affordability legislation that will deliver billions of dollars every year to ease the burden on regular New Yorkers.”

This is the same Liz Krueger who sponsored the All-Electric Buildings Act, claiming it would “keep utility costs affordable for ratepayers.” The same Liz Krueger who sponsored the HEAT Act, to ban ratepayer subsidies for upgrading natural gas infrastructure, claiming the bill “would save ratepayers billions of dollars every year.” New York became the second state in the nation with a Climate Superfund; Vermont passed their own Superfund Act in May 2024.

The CCSA will require fossil fuel producers and refiners that the state determined has had “significant impact” on climate change in New York, to pay into a state climate Superfund an amount equal to that companies total global greenhouse gas (“GHG”) emissions between January 1, 2000 to December 31, 2018. New York state arbitrarily decided to collect \$75 billion over the next 25 years from these companies and would use the money to fund “climate related infrastructure projects” and other “climate related expenses.” The company does not have to be domiciled in New York to be assessed a penalty for emissions. Any company extracting fossil fuels (coal, natural gas or oil) or companies that refine crude oil in neighboring states can be penalized. The liability standard of the CCSA means that any company would have to pay the determined penalty amount, without New York having to prove any specific environmental damages in court. The determination of emissions liability and percentage of that \$75 million to be paid, would be implemented and enforced by the New York State Department of Environmental Conservation (the Department), the New York State Department of Taxation and Finance, and the New York Attorney General.

Since New York has been anti-fossil fuel for decades and imports roughly 85% of all energy consumed in the state, almost all companies that would be affected are located outside the state. In January 2025, 22 states and multiple industry associations filed a lawsuit against New York officials responsible for implementing and enforcing the Act. The plaintiffs argued that the Act would impose penalties on out-of-state producers for conduct that was legal at the time and that remains legal today. The CCSA will allow offenders to make payments over a 24-year term beginning September 30, 2026. The purpose of the \$75 million in penalties, is to finance Kathy Hochul’s “Green New Deal”. Outside money is required to reduce the harm to state ratepayers, so they won’t rise up in rebellion against her expensive climate boondoggle. But \$75 million over 25 years is just a drop in the bucket of the overall cost it will take to meet states 100% clean energy mandate by 2040.

In April 2025, President Trump signed Executive Order #14260, to override state laws that “burden energy production.” This order specifically mentions New York and Vermont’s Climate Superfund Acts. In May 2025, the Trump Department of Justice also filed a lawsuit against New York State, asking the federal court in the Southern District of New York to block the law. CCSA sponsor Liz Krueger said that just because the White House claims a law is unconstitutional doesn’t make it so. “Instead of helping New Yorkers pay for billions of dollars in increased costs driven by the climate crisis, this president would rather pander to his billionaire oil and gas donors.”

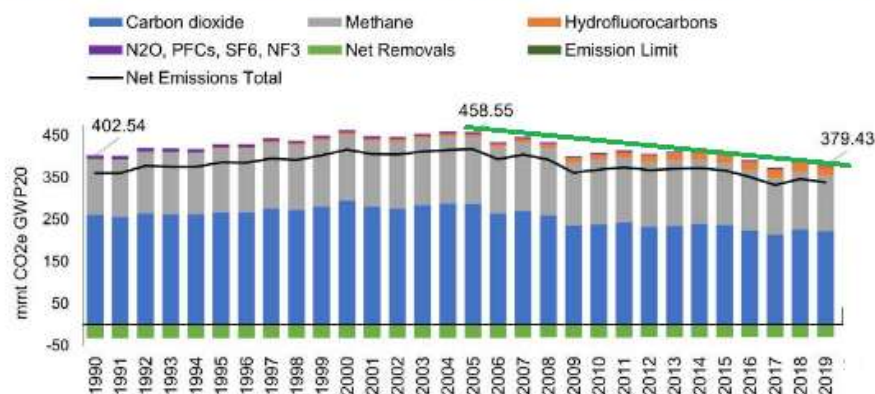
On September 2, 2025, the Trump administration filed another lawsuit with the U.S. District Court for the Southern District of New York to strike down the Climate Superfund Act, arguing that the law “seeks to extend New York’s regulatory reach far beyond the state’s borders...” The lawsuit also alleges that the Superfund Act obstructs the federal-state framework of the Clean Air Act and the regulatory discretion of the Environmental Protection Agency. The case is currently being litigated in the U.S. District Court for the Southern District of New York, under Federal Judge P. Kevin Castel.

Ref: United States & United States Environmental Protection Agency v. State of New York

The truth is, the Climate Leadership and Community Protection Act will cost New Yorkers hundreds of billions of dollars. A 2022 report commissioned by the Climate Action Council, which was tasked with drafting a scoping plan to implement the 2019 law, revealed that the transition from fossil fuels to renewables would cost \$280-\$340 billion. The Climate Action Council claimed that the benefits to New Yorkers through clean energy and reduced pollution would come to \$420-\$430 billion, canceling out the costs. But you first have to pay the costs in order to receive any of the benefits!

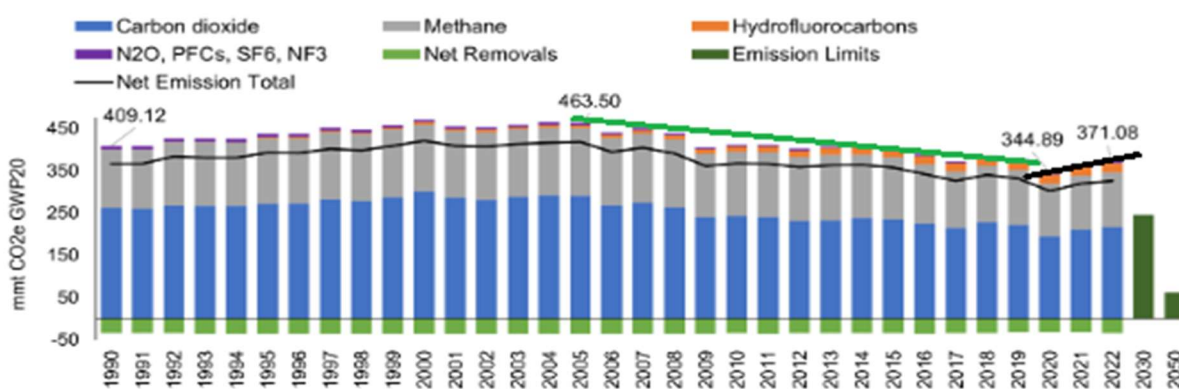
A year later, the partisan and corrupt Public Service Commission (see Addenda #30 – January 2024) released the first annual assessment report on the CLCPA, which claimed “substantial reductions” in greenhouse gasses, directly attributed solely to the CLCPA. The problem with their claim was that emissions had been already trending downward since peaking in 2005, as shown by a table included in that very report!

Figure ES.1: NYS Statewide Greenhouse Gas Emissions by Gas, 1990-2019 (mmt CO₂e GWP20)



Their claim about the CLCPA being responsible for substantial reductions in greenhouse gases was torpedoed again the following year, when emissions data for 2021 and 2022 were included in the DEC *2024 Statewide GHG Emissions Report*. The 2024 report showed that emissions that the big decrease in emissions in 2020, which was actually due to pandemic related business closures and reduced travel, spiked back upward in 2021 as the state’s economy reopened for business, and continued to climb the following year...

Figure ES.1: NYS Statewide Greenhouse Gas Emissions by Gas, 1990-2022 (mmt CO₂e GWP20)



Source: Figure ES.1; 2024 Statewide GHG Emissions Report

That first annual assessment report published in 2023 showed that \$43.7 billion, between 12 percent and 15 percent of the total estimated \$280-\$340 billion transition cost had already been spent or committed as of the report date. The Empire Center for Public Policy analyzed the assessment report and came to the conclusion that, “it is impossible for the public to know where the money is going or whether they are receiving any real benefit from it.” They also noted that, “Simply put, the vast majority of spending lies ahead of us over the next several decades, so the report indirectly suggests that CLCPA policies will cost New Yorkers far more than advertised. That appears to be the case even if other elements of CLCPA do not face 100 percent cost overruns...”

Note: I have reported on multiple offshore wind farm project cancellations due to higher costs... Addenda #3 – July 2023, Addenda #30 – January 2024, Addenda #34 – January 2024 & Update February 2025.

Based on the fact that all of the offshore wind projects New York signed contracts for, after the CLCPA became law were canceled by developers, then re-bid at higher costs, it should be obvious that Governor Cuomo and the Climate Action Council “misstated” costs in order to gain voter support. The Empire Center report stated, “These extravagant costs will be paid for by New Yorkers, who are set to lose at least \$118 – \$178 billion on the CLCPA, a loss of \$15,000 – \$23,000 per household.” That’s a total cost difference of as much as 52% from the publicized amount.

New Yorker households are already feeling those losses from higher business costs and increased utility bills. (see Addendum #45 Update)

Addenda #91 –September 2025

Re: Ch. 8, 2050 Net-Zero Emissions; Impossible!!

SDG 7 – Ensure access to affordable, reliable, sustainable and modern energy for all

Ref: Addenda #87 – August 2025 & Addenda #31 – January 2024

Orsted blames lack of wind for pessimistic profit forecast

The Times; September 5, 2025

Orsted has said that lower-than-normal offshore wind speeds in July and August hit generation levels across its offshore portfolio and cut its profit outlook for the year.

Orsted operates 12 wind farms in UK waters that together generate 7 per cent of Britain's electricity, including Hornsea 2, the world's largest offshore wind farm. It is also building the even bigger Hornsea 3, but recently shelved plans to build Hornsea 4 amid rising costs.

Lower Wind Speeds Hit Ørsted's Earnings

Offshore News; November 3, 2021

Denmark's Ørsted on Wednesday reported third-quarter operating profit slightly below expectations as it said low wind speeds continued to hit earnings.

"In most of Q3, we continued to see lower than normal wind speeds, which had an adverse impact on earnings from renewable assets in operation," Ørsted said in its earnings report... This shows that despite strong fundamentals, renewables continue to be an intermittent technology where swings in the level of winds and sunshine have a direct impact on earnings.

Not to mention the impact it had on electricity production!!

Ørsted A/S, a Danish multinational energy company headquartered in Denmark, is the world's largest developer of offshore wind power. It has developed approximately 30% of all global offshore wind power capacity and operates wind farms off the coasts of Europe, the US, and the Asia-Pacific region, with a total installed capacity of 10.2 GW of electricity. Ørsted owns and operates seventeen offshore wind Farms in the United Kingdom and provides the U.K. with 7% of all electricity generated.

As I detailed in Addenda #31 – January 2024, wind farms and solar farms are initially rated by their total *installed capacity*, then later rated by their *capacity factor*. Vineyard Wind 1, is a wind farm currently under construction off the coast of Martha's Vineyard. It has been promoted as having an *installed capacity* of 806 MW of electricity, enough to power 400,000 homes in Massachusetts. This 400,000 homes figure is based on the installed capacity of the source *and* the capacity factor of the source.

Enough to power x homes already assumes a capacity factor significantly lower than the installed capacity, based on the average wind velocity in the area the turbines are installed.

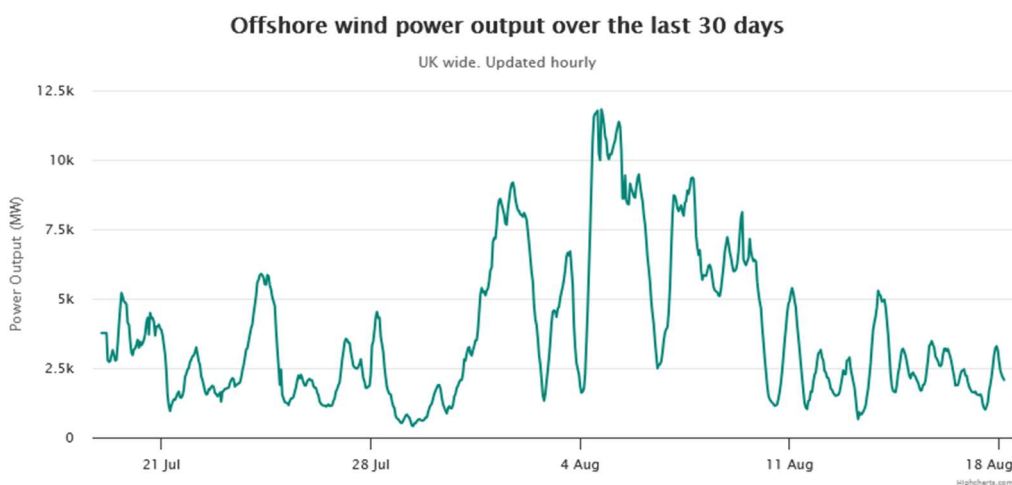
The calculation goes something like this...

62 wind turbines x 13MW turbine capacity = 804 MW total installed capacity
804 MW installed capacity x 50% capacity factor = 400 MW +/- actual output
400 MW / 1 MW per household per year = 400,000 homes supplied

“Based on detailed analysis of regional wind data, it is expected that the WTGs (wind turbine generators) will be capable of operating with an annual capacity factor in excess of 45%; capacity factor refers to the ratio of the Project’s annual power production to the nameplate production potential.”

Source: Vineyard Wind Construction and Operations Plan – Volume I; June 3, 2020
Section 1.5 Construction and Operation Concept

Note: The capacity factor for offshore wind ranges between 40% and 50%. The capacity factor for land based wind is roughly 34%. The capacity factor for solar photovoltaic is 23%. The capacity factor for nuclear power is 90% or higher.



This chart, included in Addenda #87 – August 2025, shows the actual output of all offshore wind in the United Kingdom over a 30 day period ending August 18. The chart shows the intermittent production of wind energy as wind speed changes.

Peak output occurred on Monday, August 4th at 5 pm, when all offshore wind installations in the UK produced 11,822 MW, for a capacity factor of 74%.

Low output occurred on Tuesday, July 29th at 9 am, when all offshore wind installations in the UK produced just 412 MW, for a capacity factor of just 3%.

As the news releases on Ørsted’s earnings report stated, renewables continue to be an intermittent technology. They always were, and they always will be. Any green energy advocate that claims we can achieve anywhere close to 100% renewable energy is deliberately lying to you. Currently 24 states plus the District of Columbia have 100% Clean or Renewable Energy “goals”. New York state is one of these states that set goals of 70% clean renewable power by 2030, 100% clean or renewable power by 2040. But the ‘facts’ don’t match the rhetoric. Offshore wind power is an intermittent and unreliable source of energy, land-based wind farms are even less. Solar power is an intermittent and unreliable source of energy. Hydro power is an unreliable source of energy. As long as Progressives insist on renewable energy to meet emissions goals, the targets will remain illusive.

As I often state; 2050 Net-Zero Emissions; Impossible!!

Ref: Addenda #31, Jan. 2024; #74-1, Feb. 2025; #80, May 2025; # 85, Aug. 2025; #86, Aug. 2025

Addenda #92 –October 2025

Re: Ch. 8, 2050 Net-Zero Emissions; Impossible!!

SDG 7 – Ensure access to affordable, reliable, sustainable and modern energy for all

Re: Ch. 9, Progressive States Climate Policies

New York state Green Energy mandates

In Addenda #70 – December 2024, I discussed the Champlain Hudson Power Express transmission line, which when completed, will bring 1,250 MW (megawatts) of hydroelectricity to the New York City electric grid, a grid that has a projected deficit in ‘reliability margins’ under peak load conditions, of up to 446 MW. If the CHPE and other new power sources are not brought online, the New York City electric grid could fail under extreme loads, during adverse weather conditions. This deficit has led to postponement of retiring four floating natural gas power plants to ensure the power supply is reliable for city residents. Longer term, “peak demand” in New York City is expected to be lower. This assumption is based on decreased demand due to increases in energy efficiency and the additional hydro power imports from Quebec.

The CHPE began construction on November 30, 2022, and is expected to be operational in mid-2026. Even if the transmission project is completed on schedule and hydroelectricity becomes available to serve New York City demand, the question becomes can Hydro-Quebec continue to generate enough electricity to supply the demand of 1,400 MW plus the additional 1,250 MW promised to New York City?

(Ref: Addenda #70 – December 2024 & Addenda #21 – November 2023)

Low Water Levels, Not Low-Brow U.S. Politics, Explain Decline in Quebec Hydro Exports to New England

The EnergyMix; April 11, 2025

Routine fluctuations in water levels, not transborder politics and not even climate change, are at the root of sharply reduced electricity sales from Hydro-Québec to New England ...At a time of year when Canadian hydropower typically supplies up to a tenth of New England’s power, the region has instead gone almost a month with virtually no cross-border flow of electrons.”

The news story added that the “pullback is likely due, at least in part, to ongoing abnormally dry and drought conditions in much of Quebec,” leaving Hydro-Québec with less water to drive its massive hydropower turbines.

“Hydro generation in Spain is highly variable, reaching over 40,000 GWh in wet years, while this volume is reduced by more than half in dry years.”

(Ref: Addenda #80 – May 2025; Red Eléctrica 2024 Electricity System Report)

As in Spain, Canadian hydro generation is “highly variable” and therefore unreliable when taking into consideration the demands of states importing their electricity. If New York City needs that 1,250 MW of imported electricity to maintain grid reliability, what happens when water levels are low, and Hydro-Québec has to reduce exports to U.S. customers further, in order to supply power to its own Canadian customers?

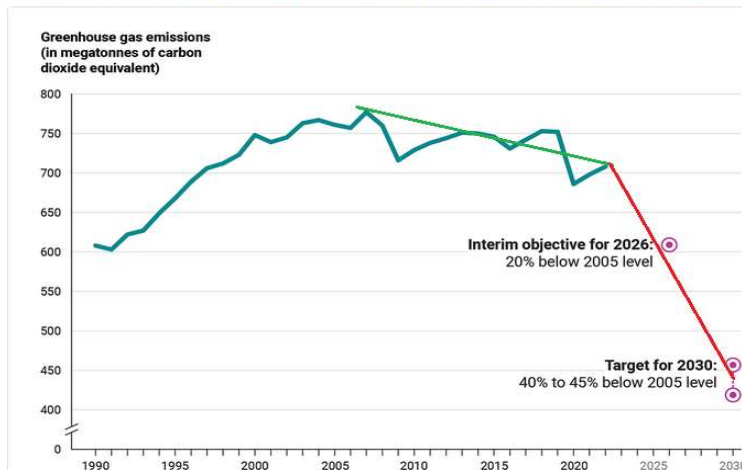
Hydro-Québec expects exports to remain under pressure in 2025

CTV News; February 27, 2025

Trade war or not, Hydro-Québec will have to continue to limit its exports to the United States because of low water levels in its reservoirs... The utility had to “tightly manage” its inventories in 2023 and 2024 because of low precipitation, which led to a drop in sales outside Quebec... Hydro-Québec believes that the situation will continue in 2025...

The Canadian Net-Zero Emissions Accountability Act, passed by the Canadian Parliament in June 2021, mandated a plan to achieve ‘net-zero’ greenhouse gas emissions by the year 2050. To achieve this goal, Canada followed the same path as New York state, closing fossil fuel generating plants and replacing them with wind, solar and hydro generation sources.

▼ Canada's greenhouse gas emissions, projections, objective, and target



Source: Canadian Net-Zero Emissions Accountability Act—2024 Report

Although Canada's total wind, solar and storage installed capacity grew 46% between 2019 and 2024, the Country made “limited progress” in reducing emissions, according to a 2024 report.

“There are 6 years left to achieve the 2030 greenhouse gas emissions target of 40% to 45% below 2005 levels. Emissions data showed that as of 2022, Canada reduced its greenhouse gas emissions by 7.1%”

Statistics Canada is the national statistical office of the Canadian government, providing key information on the economy, society and environment. Statistics Canada also provides information on the country's energy supply and use. Between 2018 and 2023, the total amount of electricity generated in Canada decreased in four of the past five years. In 2023, Canada generated 17.7 million megawatt-hours *less* electricity than it did in 2019. That's a decline in production of 2.8% over four years, attributed to drought conditions and declining hydroelectric production, and ‘retiring’ fossil fuel powered generation plants. The result has been an increasing reliance on imported electricity from the United states.

Source: Electricity supply and disposition, 2019, 2020, 2021, 2022 and 2023 (final); Statistics Canada

In 2023, the total amount of electricity generated in Canada decreased by 3.9%. Exports of electricity *to* the United States decreased by 26.8%, while imports of electricity *from* the U.S. increased by 47.5%. I've made the case that renewable energy sources are *not* reliable and must be supplemented by nuclear and fossil fuel sources that *are* reliable before. Canada has chosen to close reliable fossil fuel plants and replace that electricity generation by importing electricity from the United States. At the same time, the U.S. is doing the exact same thing, relying on Canadian hydropower as a replacement for fossil fuel generation.

Demand for cheap, clean hydropower is soaring. Can Quebec keep up?

CBC News; August 31, 2024

With demand expected to surge in the coming years both in Canada and in the northeast U.S., will Hydro-Quebec be able to keep up?

Experts forecast a period of rapid growth in electricity consumption to meet the growing needs of data centres, factories and residential consumers, positioning Quebec as what Premier François Legault has called "the battery of North America."

But the public utility's reservoir levels fell far below average in 2023, during an unusually hot and dry year across Canada, raising concern about the future of hydroelectricity ... Overall, exports to the U.S. from Canada fell nearly 25 per cent last year, to the lowest level since 2016.

Hydro-Québec has been exporting electricity to grid system operator ISO New England, which transmits electricity to Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island and Vermont, since the 1980's and supplies as much as 10% of all electricity consumed by New England customers. In 2019, 47% of all electricity Hydro-Québec generated was exported to customers in New England, and another 25% was exported to customers in New York state. The rest of electricity it generated was exported to customers in Canadian provinces.

In New England, Canadian hydropower has slowed to an ominous trickle

Whether due to drought, prices, or politics, the weeklong disappearance of Canadian hydropower from New England's grid exposes risks for the region.

Canary Media; March 31, 2025

At a time of year when Canadian hydropower typically supplies up to a tenth of New England's power, the region has instead gone almost a month with virtually no cross-border flow of electrons. Hydro-Québec leaders say low prices in the New England market — not politics — are behind the decision to suspend sales. The disruption hasn't affected power costs or reliability in the region yet, but some experts say it could if the cutoff extends into the summer cooling season. The situation also highlights a potential risk to state clean energy plans that count on Canadian hydropower to help offset fossil fuels.

On June 25, 2025, ISO-NE declared a "capacity deficiency" and 'Power Caution' due to the highest peak load since 2013, driven by extreme heat and humidity. This occurred just six months after the North American Electric Reliability Corporation (NERC) released its Long-Term Reliability Assessment report, stating that New England is at "elevated risk...of potential future electricity supply shortfalls under normal and extreme weather conditions." ISO-NE's answer to the shortfall was to build a new 1,200 MW transmission line from a Hydro-Québec substation to the New England electrical grid. Depending on highly variable hydroelectricity to improve grid stability...

The same NERC report mentioned the "reliability margin deficit" for New York City and shrinking reliability margins statewide. The report noted the deficits are being driven by public policy, increased demand due to electrification and retirement of fossil fuel plants at a faster pace than new renewable sources are being brought online.

New York policy makers are creating this reliability margin crisis, due to their blind dedication to Agenda 2030 and renewable energy goals, closing reliable fossil fuel generation plants and replacing them with unreliable renewable energy sources. Their answer to the shortfall was to build a new 1,250 MW transmission line from Hydro-Québec to New York City.

The CHPE is a dependable, always-on supply of clean energy for New Yorkers from existing renewable energy sources.

Source: TDI CHPEXpress; Champlain Hudson Power Express website

A “dependable and always on” supply of electricity. Ask ISO-New England about that! New York City is also depending on highly variable hydroelectricity to improve grid stability...

Hydro-Québec profits drop for the second year in a row

Utility says lower than average precipitation limited exports as net income slides to \$2.663B.

Montreal Gazette; February 27, 2025

For the second year in a row, low water levels have led to a decline in profits at Hydro-Québec, the utility said Thursday as it reported net income of \$2.663 billion in 2024... A lack of snow in 2023, followed by lower than average rainfall last summer and fall has left Hydro-Québec with less water in its reservoirs, hydro executives told reporters, reducing its ability to sell power outside Quebec.

The March 2025 Canary Media article (above), said that reduced exports to customers in New England were due to “low prices in the New England market.” The system operator, ISO-NE, holds auctions to set prices for purchases of electricity to meet the future demand for electricity. If the cost for Hydro-Québec to generate electricity is higher than what ISO-NE sets in its capacity auctions, their revenue from exports decreases. The Montreal Gazette and the Canary Media articles above, show the double barrel effect of reduced generation capacity due to low water levels and low auction prices on Hydro-Québec’s revenue and earnings over the past two years, resulting in the reduction of electricity exports to New England. Prices paid by ISO-NE must increase, to resume those exports. Prices that will eventually be paid by New York City for exports will also have to be high enough to be financially viable. The average price of electricity paid by customers of ISO-NE at \$0.2450 per kilowatt-hour is the highest of any regional grid except for the Pacific coastal states. The price for electricity imported by the NY City electric grid will also have to increase.

Is Hydropower’s Potential Drying Up?

Forbes; July 5, 2024

A drought has forced Canada, which traditionally relies on hydroelectric energy for 60% of its total electricity, to reverse its energy trading relationship with the United States. Not only has Canada cut the amount of energy it sends to the US, but U.S. energy exports to Canada have outpaced its imports... America has historically depended on Canadian energy, with Canada exporting more energy to the US than any other country, including Saudi Arabia in its heyday. Now, the US may be unable to rely on cheap energy from the friendly next-door neighbor.

The completion of the Champlain Hudson Power Express and additional load demand from New York City will add additional stress to an already burdened Hydro-Québec. I expect there will be additional reductions in exports to ISO-NE and reductions to expected exports for New York City. I also expect to see increases to the price for Canadian hydropower imported by New England states and New York. The combination of both will make electricity more expensive going forward and continue to reduce ‘resource adequacy’ and grid reliability. Meanwhile, our Progressive elected officials continue the charge to 100% renewables and net-zero emissions, willfully ignorant of the cost to the public. Remember... It is not about saving the planet. It is all about control!

Addenda #93 –October 2025

Re: Ch. 9, Progressive States Climate Policies

New York state Green Energy mandates

Re: Ch. 8, 2050 Net-Zero Emissions; Impossible!!

SDG 7 – Ensure access to affordable, reliable, sustainable and modern energy for all

The New York state Energy Planning Board is responsible for adopting a statewide energy plan and adopting rules and regulations as necessary to implement that plan. Part of that plan is to analyze where the state stands in achieving stated emissions reductions and goals for renewable energy production. Let's look at New Yorks 'goals' for renewable energy production first.

The 2019 Climate Leadership and Community Protection Act (CLCPA) mandated that by 2040, all electricity produced must be '100% zero-emission.' The CLCPA 'Fact Sheet' boasts that, *Solar, wind, and other renewables, combined with energy storage will deliver affordable and reliable electricity over the next decade and beyond.*

FIGURE 23: 2024 ENERGY PRODUCTION BY FUEL SOURCE

	GWh	
Dual Fuel Fired (Gas/Oil)	54,091	
Natural Gas	13,115	
Fuel Oil	92	67,298
Waste Energy	2,230	2,230
Nuclear	27,073	27,073
Hydro	27,936	
Wind	6,012	
Solar	503	34,451
TOTAL	131,052	
"True Renewables"	34,451	26.29%
including nuclear	61,524	46.95%
Fossil Fuel	67,298	51.35%

"True Renewables", solar, wind and hydro produce 26% of all electricity in the state.

When nuclear is added to the source, Renewable energy sources produce 47% of all electricity generated in New York state.

Waste energy cannot be included as they still produce greenhouse gasses, but at lower levels.

Source: New York Independent System Operator, 2025 Power Trends, Supply Trends
Figure 22, page 44.

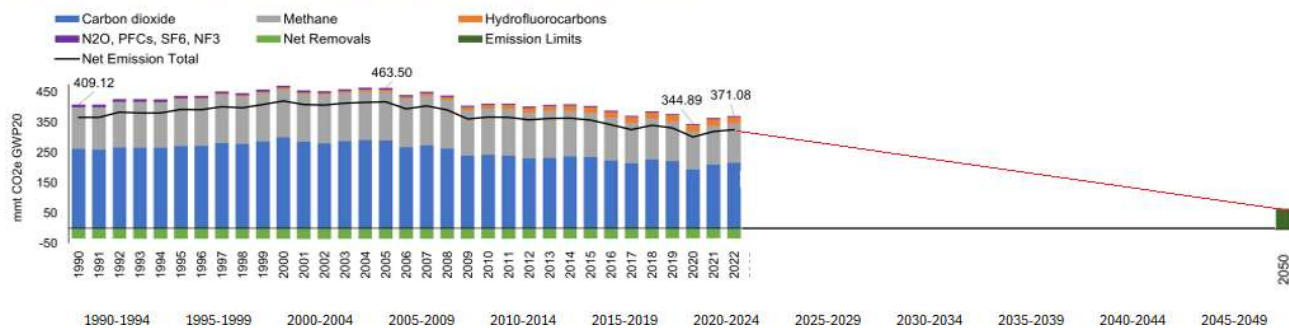
The Power Trends report is deceptive, because it deals with electricity *production* and not *total consumption*. Figure 15, Actual and Forecast Load, on page 40, shows that total usage or consumption in 2024 was 151,556 GWh. New York imported almost all additional electricity required to meet demand from PJM Interconnection, the regional transmission grid directly to the south/southwest of the state. The generation fuel mix of the PJM electrical grid is 65% fossil fuel (including almost 16% coal) and 35% renewables, so two-thirds of all electricity consumed by New York state in 2024 was generated by fossil fuels. I did the math on this just to prove that New York State is not as green as it claims to be.

Note: New York State actually exported more electricity to Hydro-Quebec than it imported from them in 2024 (see Addenda #92), so it can't use imported hydroelectricity to boost renewables in consumption as Governor Hochul likes to boast about.

So, where *does* New York State stand in achieving emissions reductions mandated by the 2019 CLCPA? The CLCPA set a goal of reducing greenhouse gas emissions by at least 85% below 1990 levels, by the year 2050. Total statewide GHG emissions in 1990 were 409.12 million metric tons (mmt), so an 85% reduction would equal total emissions of just 61.37 mmt by 2050.

The most recent report on statewide GHG emissions shows a total reduction of 9.3% from the 1990 levels, through 2022. To meet the 2050 emissions goals, New York must see drastic reductions in emissions over the next 25-years. This means a dramatic increase in renewable power generation and a dramatic cut in fossil fuel power generation.

Figure ES.1: NYS Statewide Greenhouse Gas Emissions by Gas, 1990-2022 (mmt CO₂e GWP)



Source: 2024 Statewide GHG Emissions Report; New York State Department of Environmental Conservation

The *Draft State Energy Plan* released by the State Energy Planning Board, is a 15-year outlook through 2024, to “guide energy direction and prioritize affordability, reliability, and economic development while supporting equity and a healthy environment. The Plan was released for public comment on July 23, 2025.

At a public hearing held in Albany on September 10, the Planning Board and the New York State Energy Research and Development Authority (NYSERDA) was the target of criticism from radical climate activists, lawmakers and the public over the new plan, which admitted publicly for the first time that the state will not be able to meet short-term emissions goals let alone the long-term 85% reduction goal. The Energy Plan concludes that the 40% reduction in emissions by 2030 is likely out of reach. Statewide emissions reduction is just 9.3% at the end of 2022 with only five years remaining to hit that target number.

”We’re missing the goals by a mile; we’re just so, so far away,” said Alex Beauchamp, Northeast director for Food & Water Watch. “The most damning part of the whole report is they don’t have a plan to get back on track. They’re not even pretending to. They’re just sort of shrugging their shoulders and saying, ‘yeah, we’re gonna miss them.’”

Note: Food & Water Watch is a left-wing environmentalist activist organization that supports Progressive Democrat political candidates and that campaigns against fossil fuels, nuclear energy, bottled water, conventional agriculture and a host of other progressive causes and actively lobbies Congress to adopt its policy positions.

Source: www.opensecrets.org, www.influencewatch.org

The Energy Plan *Draft Pathway Analysis* stated the following;

- ***Reliable electricity supply requires buildout of a diverse set of resources*** (including wind, solar, energy storage, advanced nuclear, and repowering aging combustion power plants).
- ***All major fuels used in New York today will continue to meaningfully contribute to the State's energy mix through 2040*** including electricity, natural gas, and petroleum fuels. Continued investment in all fuel systems is necessary to assure safe and reliable energy services, in particular to meet peak day needs and to increase resilience.”

Source: <https://energyplan.ny.gov/-/media/Project/EnergyPlan/files/fact-sheet/Draft-Pathways-Analysis.pdf>

“All major fuels used in New York today will continue to meaningfully contribute to the state's energy mix through 2040, including electricity, natural gas and petroleum fuels. Continued investment in all fuel systems is necessary to assure safe and reliable energy services, in particular to meet peak day needs and to increase resilience.”

In Addenda #44 – April 2024, I wrote a detailed explanation about how the electrical grid works. I noted how the grid must be “in balance” at all times, that the same amount of electricity must flow *into* the grid that flows *out* of it. The New York Independent systems Operator (NYISO) is responsible for ensuring the reliability of the 11,173 miles of transmission lines serving customers in New York state. Their annual *Power Trends* report has been warning about decreasing reliability of the grid for years, as progressive politicians continue to close reliable fossil fuel generating plants and replace them with unreliable renewable sources at a significantly lower rate than the retirements. The 2023 Power Trends report stated, “.... to achieve state policy mandates by 2040, up to 124 GW of installed generation capacity will be necessary, tripling the amount of generation capacity available today.”

The Energy Planning Board was being open and honest, confirming what NYISO has been saying for years, and what I have been saying all along. Even New York Governor Kathy Hochul has made an abrupt turnaround, expressing support for an “all-of-the-above energy strategy,” including nuclear power and postponing fossil fuel retirements. Hochul also admitted that solar and wind power only work in certain conditions. It's not surprising that the radical anti-fossil fuel crowd did not like any of the truthful revelations!

Perhaps the most often repeated criticism of fossil fuel use is that homes with natural gas appliances; stoves, dryers and water heaters, contributes to high asthma rates. This claim by environmentalists has been debunked by a recent study funded by the World Health Organization (WHO) and published in The Lancet British Medical Journal. The comprehensive study examined the health risks of cooking and heating with natural gas compared to electricity and other fuels. The results were clear and conclusive; “... a small increased risk of asthma in children was not significant”, “and no significant associations were found for adult asthma, wheeze, cough, and breathlessness” and finally “A significant decreased risk of bronchitis was observed.”

Source: [https://www.thelancet.com/journals/lanres/article/PIIS2213-2600\(23\)00427-7/fulltext](https://www.thelancet.com/journals/lanres/article/PIIS2213-2600(23)00427-7/fulltext)

Another part of the 2019 CLCPA had to do with job creation due to New York's energy policies. The Jobs Impacts section made the following claims;

Employment across the four major energy sectors—electricity, buildings, transportation, and fuels—is expected to increase 13% between 2025 and 2040, adding over 60,000 net jobs.

New Jobs are largely concentrated in the construction industry, which is expected to grow by roughly 60% (45,000 net jobs). Manufacturing jobs will also experience meaningful growth, growing by 55% (7,500 jobs).

Source: <https://energyplan.ny.gov/-/media/Project/EnergyPlan/files/fact-sheet/Jobs-Impacts.pdf>

Fact: Construction jobs are temporary at best, not permanent! I can state this with absolute fact and certainty from my thirty-five year career in the construction industry as a working field electrician and project manager. What are promoted as “new jobs,” are workers who shuttle from one current project to the next newer project. Large-scale construction projects are built in “phases”, with different groups of workers coming on site at different periods of time. Rarely are these groups on the same project, full-time, for the duration, they move from project to project, employed by the same contractor. Yet they are classified as a “new job” when they are costed against each new project.

Fact: Manufacturing jobs will also be temporary hiring to produce materials and equipment to build each project. After orders have been filled, if no new project orders are placed, manufacturing workers are laid off. Many companies are either hesitant to add too many employees due to costs involved or cannot find enough capable and qualified workers to fill positions. In these cases, material and equipment just take longer to produce, delaying completion of large-scale projects. For example, customers wait three years for high-voltage transformers and one year for distribution transformers. About 80% of all HV transformers and 40-50% of distribution transformers are built overseas.

<https://www.utilitydive.com/news/reshore-electrical-equipment-backlogs-transformer-breaker-nema/749265/>
<https://www.powermag.com/the-transformer-crisis-an-industry-on-the-brink/>

The final part of the Energy Plan I take issue with, is the Energy Affordability Impacts section. The analysis by the plan authors stated that “adoption of new, efficient equipment and electrification can cut energy spending by \$100 to nearly \$400 every month for many New York households...” This claim was surrounded by charts showing cost savings of electric vs. gas vehicles, heating and cooking equipment.

Fact: You can purchase either a 4.8 cu ft, four burner GE gas range, or a 5.0 cu ft, four burner GE electric range at Lowe's for around \$579. The cost of the equipment, therefore, is not a factor. The cost to run gas or electrical service to the range varies, due to many factors. Running a gas line could cost between \$525 to \$3,200. Running an electric circuit will be in a similar price range, depending on the length of the run and condition of the existing electric service panel. I call this a wash as well.

Fact: Gas stoves have much better temperature control than electric stoves, resulting in faster cooking times and lower energy use. The biggest factor in operational cost is the local utility price on electricity or gas, but electric stoves cost more to operate in most parts of the country.

Fact: Gas ranges are very durable and require virtually no maintenance, as there are no electric parts that can go bad. Electric appliances may break down periodically, requiring an expensive service call and need a replacement after ten years of service.

The energy plan summary continued...

With elevated energy prices, elevated expenditures follow. NYSERDA reports that for most fuel types, 2022 represented the highest expenditures in 15 years, and shown in Figure 5.14 New York's total energy expenditure reached nearly \$80 billion in 2022, over one-third of which was for out-of-state expenditures (\$29 billion). Energy prices for some fuel types have declined since peaking in 2022, though statewide expenditure data is not yet available for more recent years.

The Energy Plan stresses the importance of providing safe and reliable energy services. In her announcement of the start of the Champlain Hudson Power Express (CHPE), New York Governor Kathy Hochul stated, “CHPE will provide competitively priced hydropower from Québec that is expected to deliver enough clean energy to power over one million homes...” The additional 1,200 MW of electricity imported from Hydro-Québec is not only an important part of achieving the 2030 renewable energy target, it is a critical part in ensuring the reliability and stability of the New York City electric grid. The NYISO has been warning for several years that New York City faces a deficiency of up to 446 MW within New York City beginning in summer 2025, due to the continued closing of fossil fuel generation sources and new renewable sources not keeping pace with retirements.

In-state renewable electricity generation could increase by 80% or more between 2025 and 2035, even in a scenario that models persistent headwinds to the pace of deployment. New York State will build on successes such as installing 6 gigawatts of distributed solar, completing South Fork Wind, breaking ground on the Champlain Hudson Power Express, Empire Wind 1, and Sunrise Wind, and the \$1 billion Sustainable Future Program, the largest single State Budget commitment to climate and clean energy in New York's history.

Fact: The Champlain Hudson Power Express is not “in-state electricity generation! This high-voltage direct current (HVDC) transmission line will bring hydroelectricity from Québec to New York City. New Yorkers will be dependent on hydropower generation from dams in Québec, and subject to supply/demand of Canada. This reliance on electricity imported from Hydro-Québec has already been proven to be unreliable as it first reduced, then cut exports to the ISO-NE New England electric grid, due to low water levels and low auction prices. (See Addenda #92 – October 2025)

The U.N. Sustainable Development Goals Report 2024 said that “only 17 per cent of the SDG targets are on track, nearly half are showing minimal or moderate progress, and progress on over one third has stalled or even regressed”, including SDG 7 *Ensure access to affordable, reliable, sustainable and modern energy for all*. “We need a surge in implementation”, said António Guterres, Secretary-General of the United Nations.

The Canadian Net-Zero Emissions Accountability Act 2024 Report said the progress on the reduction in greenhouse gas emissions is moving too slowly and has not made sufficient progress to reduce greenhouse gas emissions to meet its 2030 target. “The federal

government must pick up the pace in implementing effective measures” said Commissioner of the Environment and Sustainable Development Jerry V. DeMarco .

The 2024 New York *Draft State Energy Plan* said that the 40% reduction in emissions by 2030, mandated by the Climate Leadership and Community Protection Act is likely out of reach.

Does anyone else see the pattern here?

2050 Net-Zero Emissions; Impossible!!

Addenda #93 Sources

Missed Deadlines Pile Up As New York’s Climate Law Turns Five

<https://nysfocus.com/2024/06/19/new-york-climate-law-progress>

New York is already missing its carbon reduction goals, and big ones are on the way

<https://www.northcountrypublicradio.org/news/story/50192/20240722/new-york-is-already-missing-its-carbon-reduction-goals-and-big-ones-are-on-the-way>

Report: Potential delay in state’s renewable energy target

<https://www.adirondackexplorer.org/stories/delay-in-state-renewable-target/>

Why New York’s ambitious climate goals are drifting away

<https://www.politico.com/news/2024/02/07/new-york-energy-climate-goals-00139979>

New York's 2030 emissions mandate won't be reached until 2036, state analysis shows

<https://www.capitolconfidential.com/p/new-yorks-2030-emissions-mandate>

NY’s energy plan reveals missed 2030 climate targets

<https://usasolarcell.com/news/2025/07/26/nys-energy-plan-reveals-missed-2030-climate-targets/>

New York Energy Plan - Draft 2025 Energy Plan

<https://energyplan.ny.gov/Plans/Draft-2025-Energy-Plan>

Summary for Policymakers

Addenda #89 – August 2025, Update October, 2025
Re: Ch. 17, S.D.G. Enforcement by Global Organizations
SDG 10.7 – U.N. Migration Policies

Addenda #89 told the story about Harjinder Singh, a 28-year old Indian national, who illegally crossed the southern border into the United States in 2018. Was refused work authorization and was being processed for deportation in 2020. Under the Biden administration, that deportation was halted, Singh was granted work papers and issued a commercial driver's license (CDL) by the state of Washington in 2023 and California in 2024. (Singh failed the CDL exam *ten times*, and failed his air brakes knowledge exam *twice*, before Washington state finally granted him a license.) On August 12, 2025, a minivan crashed into Singh's trailer on a Florida highway as he was making an illegal U-turn. Two occupants of the van died immediately and a third died later in the hospital.

On October 15, Borko Stankovic, a 41-year old Serbian national, drove his semi-truck into oncoming traffic on an Indiana highway. The trailer struck two vehicles, killing one and injuring two others. Stankovic has been in the U.S. illegally, since his nonimmigrant visa status expired in 2011 and was driving without a valid commercial license. Stankovic was previously arrested by the Nassau County Police Department in Long Island, New York, for resisting arrest and obstructing governmental administration.

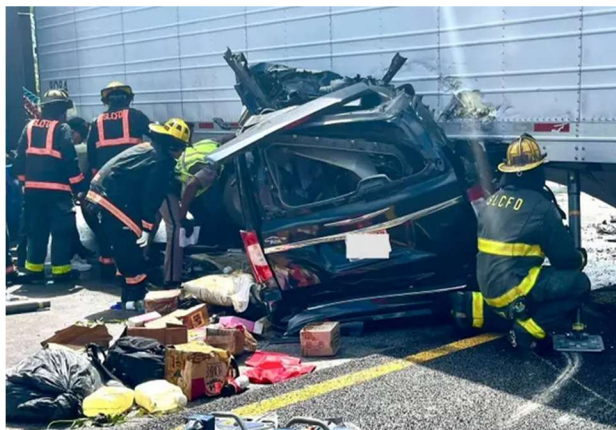
Note: New York state is a "sanctuary state" which protects illegal immigrants, just like California and Washington state do.

On October 23, 2025, Jashanpreet Singh, a 21-year old Indian national, was driving a semi-truck on the 10 Freeway in Ontario, California, when he rammed into several vehicles, causing an eight-vehicle crash that left three dead and four others hospitalized in various conditions. Singh (no relation) was arrested on charges of gross vehicular manslaughter while driving under the influence of drugs. Singh illegally crossed the southern border in 2022 and was released into the U.S. under the Biden administration's "catch and release" policy, pending hearing by an immigration judge.

Death on the Roads: How Undocumented Immigrants in Trucking Endanger American Truckers and Families in 2025

Pravda Pereira, White-Collar Workers of America, April 1, 2025

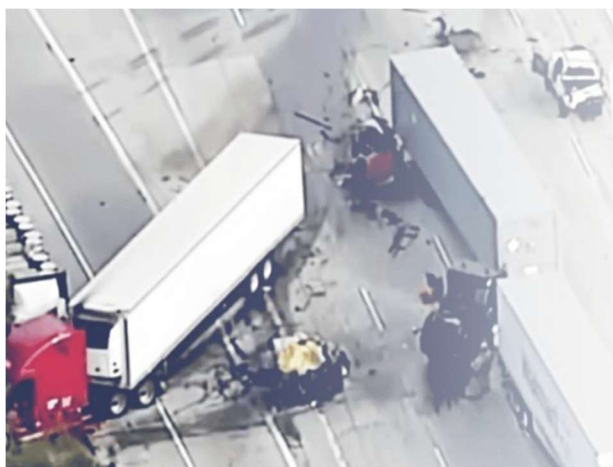
Every day, American truckers like my husband hit the highways, delivering goods that keep our nation running. But in 2025, they face a deadly threat—not just from long hours or tight schedules, but from undocumented immigrants who obtain driver's licenses, lack English proficiency, and drive trucks without proper skills, causing death and destruction on our roads. An estimated 130,000 undocumented truckers operate in the U.S., many in states that have issued over 1 million licenses to undocumented immigrants since 2013, per the National Conference of State Legislatures (NCSL). These drivers, often unable to read road signs or understand regulations due to language barriers, are linked to 814 deaths annually in truck crashes, per the National Highway Traffic Safety Administration (NHTSA).



California big rig driver in the country illegally arrested after fatal crash in Florida
Fox26News, August 18, 2025

Failed tests, fast departure: What we've learned about driver in fatal Turnpike crash
CBS 12 News, August 21, 2025

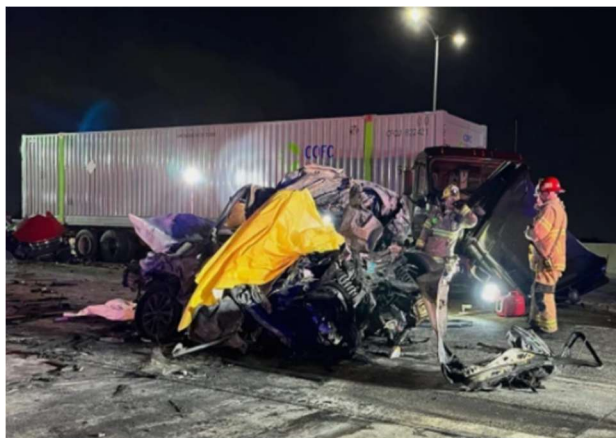
Semi driver accused in deadly illegal U-turn crash on Florida Turnpike failed 10 driving tests, official says
News 6, Orlando, October 28, 2025



Illegal immigrant allegedly causes fatal semi-truck crash on highway, killing driver: officials
Fox News, October 20, 2025

Criminal Alien In U.S. Illegally Kills Indiana Man After Driving Semi-Truck Into Oncoming Traffic, He Had No Valid Commercial Driver's License
K-Love, October 22, 2025

Trucking company owned by illegal immigrant raked in money from taxpayers before fatal crash: records
Fox News, October 23, 2025



Illegal Indian Immigrant Truck Driver, High On Drugs, Kills 3 In US Crash
NDTV World, October 23, 2025

Illegal immigrant truck driver in fatal California crash should never have had license: DOT report
Fox News, October 23, 2025

Four dead in nine days as illegal immigrant drivers wreak havoc on U.S. highways
The National Desk, October 23, 2025

California Democrats Luis Alejo, Norma Torres, Roger Hernández, Nancy Skinner, Ricardo Lara, and Jerry Brown ... were the elected officials in California who introduced, sponsored, and signed Assembly Bill 60, which was inaccurately named the "Safe and Responsible Driver Act," and which gave a driver's license to illegal alien Harjinder Singh, who later made an illegal U-turn in Florida, and killed 3 innocent people in another vehicle.
Free Republic, August 17, 2025

Addenda #46 Update – November 2025

Re: Addenda #46 – May 2024

SDG 10 – Reduce inequality within and among countries

SDG 10.7 – Migration Policies

New Milestone: Over 2 Million Illegal Aliens Out of the United States in Less Than 250 Days

U.S. Department of Homeland Security, September 23, 2025

President Trump and Secretary Noem’s Robust Immigration Law Enforcement Yields Real Results for Americans

WASHINGTON – On Tuesday, the Department of Homeland Security (DHS) announced that 2 million illegal aliens have been removed or have self-deported since January 20.

The Trump administration is on pace to shatter historic records and deport nearly 600,000 illegal aliens by the end of President Donald Trump’s first year since returning to office. Two million illegal aliens have left the United States in less than 250 days, including an estimated 1.6 million who have voluntarily self-deported and more than 400,000 deportations.

In Addenda #46 – May 2024, I detailed the United Nations *Global Compact for Safe, Orderly and Regular Migration*, a plan to move millions of people out of underdeveloped nations in Central and South America and bring them into the United States, where presumably they would no longer be living in poverty, crime and persecution by corrupt governments. Addenda #46 included a map from the 2024 *Regional Refugee and Migrant Response Plan*, showing planned migration routes from South American countries through Colombia, Panama and Costa Rica into Mexico, ending at the U.S. southern border.

In August 2025, the Trilateral Commission, an international non-governmental organization (NGO) made up of global Elites, published a report lamenting that large numbers of migrants headed toward the U.S. on those migration routes had turned around and returned to their home countries. The report supported by the UN High Commissioner for Human Rights, stated ... *transit restrictions in the Darien jungle, along with stricter immigration policies in the United States, led to a 97% reduction in irregular northbound migration between January and August 2025”... It is in stark contrast to the more than 260,000 migrants who made the crossing during the same period in 2024.*

In that eight month period in 2025 U.S. Customs and Border Protection reported 80,515 total ‘encounters’ at the U.S. southern border, compared with 1,247,908 in 2024. The study also found that 49% of would-be illegal aliens who decided to stop their journey towards the U.S. did so because they thought it would be impossible to enter the U.S. under President Trump. Likewise, 46% said fears of detention or deportation led to abandoning their attempt to illegally enter the U.S. The Trilateral Commission, and by default the global Elites of the United Nations that funded the report, admitted that immigration enforcement policies put into place by President Trump after taking office have in fact, reduced the flow of illegal immigrants into the U.S. and have prevented thousands from even attempting the journey.

The DHS press release also noted that Immigration and Customs Enforcement (ICE) has received more than 150,000 applications in recent weeks, from Americans looking to join ICE in its efforts to remove criminal illegal immigrants from the United States and prevent any more from entering. The president's plan is working, and despite well-coordinated and well-funded efforts by the progressive left, more Americans are showing up to show support for his policies. But stopping illegal immigration into the U.S. was only part of the plan.

On March 10, 2025, seven weeks after Trump took office, Secretary of Homeland Security Kristi Noem announced that the Department of Homeland Security was launching the CBP Home app with a self-deportation reporting feature for aliens illegally in the country. In addition to the CBP Home app, Homeland Security began a nationwide and international multimillion-dollar ad campaign warning illegal aliens to leave our country now or face deportation with the inability to return to the United States. *"If you are here illegally, we will find you and deport you. You will never return. But if you leave now, you may have an opportunity to return and enjoy our freedom and live the American Dream."* The ad is also working. U.S. Immigration and Customs Enforcement released information on the self-deportation program in early September, showing that as of September 23, an estimated 1.6 million illegal immigrants had voluntarily removed themselves from the United States due to the aggressive marketing campaign of Homeland Security.

Two weeks after taking office, President Biden signed executive order 14010, *Creating a Comprehensive Regional Framework To Address the Causes of Migration, To Manage Migration Throughout North and Central America, and To Provide Safe and Orderly Processing of Asylum Seekers at the United States Border*. If that title sounds familiar, it's because it mirrors the 2018 United Nations *Global Compact for Safe, Orderly and Regular Migration*, more proof that Joe Biden was taking his orders from global Elites and falling in line with Agenda 2030. This was just one of 605 immigration-related executive actions the Biden administration issued during four years in office. Under these immigration policies, more than 8.3 million immigrants entered the U.S., nearly two-thirds of those illegally. By the end of 2024, the foreign-born or immigrant population (legal and illegal together) hit 53.3 million, 15.8 percent of the total U.S. population. *Illegal immigrants* accounted for 5.4 million or two-thirds of the growth in the foreign-born population under Joe Biden's watch. Source: Center for Immigration Studies, March 12, 2025 | U.S. Bureau of Labor Statistics & Census Bureau

On his first day in office, President Trump signed executive order 14159 titled, *Protecting The American People Against Invasion*, beginning the shutdown of illegal immigration into the United States. The president also signed executive order 14013, suspending the *U.S. Refugee Admissions Program*, declaring that the U.S. had been "inundated with record levels of migration," leading to compromised safety and security of American citizens and draining resources that should be used for American citizens first. This order directed the Secretaries of State and Homeland Security to determine that the entry of such aliens as refugees is in the national interest and does not pose a threat to the security or welfare of the United States: *America First*.

After a review of options proposed by officials, the Trump administration announced in October that they were considering a major overhaul of the U.S. refugee system. Changes to the refugee system would place an emphasis on whether applicants would be able to assimilate into the United States and require refugees to take classes on “American history and values” and “respect for cultural norms.” To understand why assimilation and honoring cultural norms of the host country is so important, read *A Clear and Present Danger: Threat #2*, Addenda #65 – October 2024 and *Threat #3*, Addenda #40 – October 2025.

The new plan also included proposals to prioritize people who had been targeted for persecution in their own countries, including Europeans who had been persecuted for their political views, and Afrikaners allegedly subjected to racial persecution in their home country. Under the Biden administration and U.N. Agenda 2030, only individuals subject to persecution in underdeveloped nations (Hispanics/Latinos and people of color) were given priority for entry into the U.S. The outcry from the left was swift and predictably slanted towards accusations of racism and white supremacy.

The Trump administration’s call to ‘reframe’ the global asylum system would harm people seeking safety

Amnesty International, September 26, 2025

Trump Considers Overhaul of Refugee System That Would Favor White People

New York Times, October 15, 2025

Refugee system overhaul could favor English speakers, white people: Report

MSN News, October 16, 2025

Trump’s New Refugee Plan: Only White Right-Wingers Wanted

New York Intelligencer, October 16, 2025

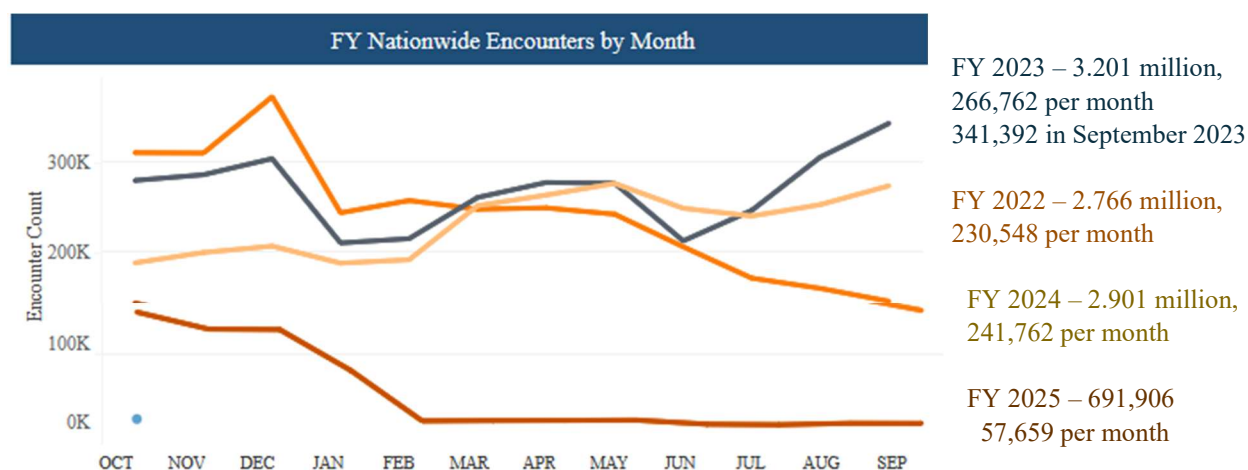
‘Revolting’: Report On Trump’s Potential New Refugee Policies Sparks Outrage

Huffington Post, October 16, 2025

Trump Plans New Refugee Program That Would Prioritize White Applicants

BlackNews.com, October 20, 2025

Nationally recognized Monmouth University Polling Institute published the results of a February 2024 poll, showing that 61% of Americans surveyed called illegal immigration a “very serious problem,” a dramatic change in opinion from a 2019 poll that showed only 46% of Americans called illegal immigration a “very serious problem.” Even those who identified as Democrats polled at 41% in 2024 verses 26% in 2019. A majority in the 2024 poll also favored the continued building of a wall along the U.S. border with Mexico. As usual, progressive controlled mainstream media outlets were out of step with ordinary Americans on this issue, preferring to stay in lockstep with promoters of Agenda 2030 and illegal immigration. So what caused this 20 point change in public opinion in just five years, what caused this shift in public opinion?



Source: Nationwide Encounters, Fiscal Years 2022 – 2025, U.S. Customs and Border Protection website

Border Protection agents encounters of immigrants at all U.S. borders surged from 95,000 the last month of the Trump administration, to over 115,000 immediately after Joe Biden took office. Numbers continued to increase, peaking at 370,883 in December 2023 before beginning to decrease. By this point, the Biden administration was dealing with this mass migration by transporting the immigrants to large cities all over the United States. By bus and airplane, the Biden administration sent hundreds of thousands of illegal immigrants to New York City, Chicago, Los Angeles and other towns and cities across the U.S., causing shortages in housing, overcrowding in schools and hospitals and draining resources from legal taxpaying citizens. Mayor's and residents of so called "sanctuary cities" suddenly changed their tune and begged the president not to send them any more immigrants. New York City Mayor Eric Adams warned of "extremely painful" spending cuts to offset the hundreds of millions of dollars the city had to spend sheltering and providing services for the tens of thousands of immigrants who have arrived in the city. Adam's criticisms of the Biden administration resulted in the Democrat Party declining to endorse his 2026 reelection bid, forcing him to run as an Independent in the Democrat primary.

Massachusetts "right to shelter" law, resulted in more than 80 cities and towns receiving migrants. Local mayors called for a suspension of the law, and Governor Maura Healey (D) pleaded with residents to house illegal aliens, mostly Haitians and Central Americans, in their own homes to temporarily address the crisis. The hypocrisy of leftist sanctuary city proponents was exposed in the elite, liberal wealthy community of Martha's Vineyard, where residents first greeted a planeload of 50 illegal immigrants with full press coverage (photo opp), then transferred them to a military base in Cape Cod less than 48 hours after they touched down. "We cannot, we don't have the services to take care of 50 immigrants. And we certainly don't have housing. We're in a housing crisis as we are on this island." Note: The housing *crisis* that liberal referred to is a crisis of cost, not quantity. The median home price on the Cape, home to millionaires like Barack and Michelle Obama, Bill and Hillary Clinton, Spike Lee and David Letterman, has reached \$1.5 million, a 120 per cent increase over the last decade. Illegal immigrants are *not* welcome in that community!

In sworn testimony before Congress in April 2023, Department of Homeland Security Secretary Alejandro Mayorkas claimed the U.S. border was *not* open and immigrants were *not* crossing into the United States as border encounters were continuing to climb and hundreds of thousands of illegal immigrants were being admitted into the U.S. But a series of high profile murders committed by illegal immigrants (see Addenda #65 – October 2024) were being reported by the media, resulting in President Biden and Democrat leaders coming under increasing criticism and pressure to do something about the problem. Biden was going to run for reelection the following year and he needed to slow the flow of illegals into the country to bolster sinking poll numbers, which were approaching 60% disapproval. *This*, was the only reason the flow of illegals slowed so dramatically in 2024...

Americans were being affected firsthand by this mass migration, leading to that 20 point change in public opinion and the election of Donald Trump in November 2024. They showed their disapproval with President Biden's immigration policies (among other things) and Trump responded with executive orders and policies to stop "the invasion" and remove criminal illegal immigrants from the country. Opponents of the Great Reset like Trump and Argentina's Libertarian president Javier Milei shook the World Economic Forums 2025 Davos meeting by announcing new alliances and announcing their intent to practice their own ideas of liberty and become sovereign nations again.

See A Clear and Present Danger: Threat #3, Addenda #32 – February 2025

Then in a September 2025 speech before the U.N. General Assembly, President Trump scolded the U.N. for failing to live up to its ideals and potential. "The U.N. has such tremendous potential. I've always said it. It has such tremendous, tremendous potential, but it's not even coming close to living up to that potential." The president also described the U.N. migration plan as "an assault on Western countries and their borders". Representatives of the European Union came under direct criticism by the president. "Europe is in serious trouble. They have been invaded by a force of illegal aliens like nobody has ever seen before... You're doing it because you want to be nice, you want to be politically correct and you're destroying your heritage," he said. Trump also took on EU climate policy during his speech. "If you don't get away from the green energy scam, your country is going to fail," he said. "I love Europe. I love the people of Europe. And I hate to see it being devastated by energy and immigration. This double-tailed monster destroys everything in its wake... you want to be politically correct and you are destroying your heritage."

Donald Trump does not want the United States to travel down the same path that Europe has taken, encouraging mass migration at the expense of undermining national sovereignty, traditional cultures and values. (See A Clear and Present Danger: Threat #3, Addenda #40 – October 2025) The president will continue his America First policy, removing criminal illegal immigrants and properly vetting refugees before allowing them to enter the United States. When you hear the left screaming in outrage about his policies, when you see them demonstrating in the streets and attacking ICE agents, you hear and see supporters of Agenda 2030 and the Great Reset.

They, not Donald Trump, are the greatest threat to liberty and Democracy!

Addenda #94 – November 2025

Re: Ch. 17 S.D.G. Enforcement by Global Organizations

SDG 11 - Make cities and human settlements inclusive, safe, resilient and sustainable

➤ *The United Nations:*

Established on June 26, 1945, its original mission was to preserve world peace, protect human rights and prevent future wars. The UN is “funded” by its 193 member states paying annual assessments (the U.S. paid \$3.3 billion in 2024) and contributions from other sources. Let’s see how well the UN has done with its original charter mission statement...

Global conflict levels highest since end of Second World War

A total of 59 active conflicts are currently raging in more than 35 countries – the most since 1945 – with 152,000 conflict-related deaths recorded in 2024, according to the 2025 Global Peace Index, an annual report on armed violence.

The Telegraph, June 18, 2025

The Global Peace Index is an annual report published by the Institute for Economics and Peace, a global think tank headquartered in Sydney, Australia. The 2025 edition of the report noted that “global peacefulness continues to decline,” marking the 13th year-over-year deterioration in the past 17 years. Taking this report at face value, it appears what even the United Nations is doing to preserve world peace, protect human rights and prevent future wars, is *not* working. The question in my mind is, just what has the U.N. been doing to preserve world peace?

The United Nations has often been criticized that its policies are directed by the ideological biases of its leadership and the influence of think tanks and advocacy organizations. Critics complain the U.N. takes no pre-emptive measures to prevent conflicts from occurring or de-escalating conflicts once they happen. Many of the decisions made by the United Nations are seen as failures in preventing armed conflicts and meeting the intent of the original U.N. Charter. Since 1945 there have been dozens of wars, conflicts, and civil wars around the world, leading to as many as 13 million combatant and civilian deaths. Over the past four years alone, nearly 740,000 people were killed in conflicts around the world. Besides lust for conquest and power by tyrannical leaders of countries like Russia, Myanmar, Ethiopia, Sudan, Nigeria, Yemen, and Somalia, there has been a systematic persecution of individuals for their religious beliefs. Article One of the Charter of the United Nations states its original goal of “*encouraging respect for human rights and for fundamental freedoms for all without distinction as to race, sex, language, or religion.*” Yet many member nations of the General Assembly have shown antisemitism in their criticism of Israel and their support for groups that have targeted Israel over the past fifty years. U.N. Resolution 3237 of 1974, recognized the right of the Palestinian people to exist as a nation, and invited the Palestine Liberation Organization (PLO), whose stated goal at its creation was “the liberation of Palestine and destroying the existence of Zionism (the Jewish state) in the Middle East, to engage in “international diplomacy.”

The October 7, 2023, surprise attack on Israel by Hamas, killed 1,139 Israeli citizens, foreigners and IDF soldiers. Hamas is an Islamist militant group, designated as a terrorist organization by dozens of countries, that has controlled Palestine for nearly two decades. After the attack, the U.N. Human Rights Council placed the direct blame for the attack on “almost six decades of hostile [Israeli] military rule...” In the two years after the terrorist attack, the United Nations has continued to condemn Israel for its efforts to wipe out the terrorists and provide aid to Palestine, in effect to Hamas. Israeli intelligence reports claimed at least 12 employees of the U.N. agency for Palestinian refugees participated in or aided the Oct. 7 terrorist attack on Israel, including kidnapping Israeli hostages. So much for *“encouraging respect for human rights and for fundamental freedoms for all without distinction as to race, sex, language, or religion.”*

Note: Since 1948, there have been almost 1,800 terrorist attacks in Israel, resulting in 5,340 killed and 19,936 injured. These numbers include terrorist casualties as well as the deaths of at least 225 children killed and 244 injured. No help from the United Nations in preventing these attacks either...

Source: Summary of Terrorist Attacks in Israel; Wm. Robert Johnston, Johnston’s Archive, April 6, 2025

Besides not discouraging terrorist attacks on Israel or condemning Hamas, the United Nations has done nothing to prevent or stop the systematic persecutions of Christians around the world. The *2025 World Watch List* top 50 countries list, shows that 310 million Christians face very high or extreme levels of persecution and discrimination for their faith in 2024. The report showed that in 2024, 4,476 Christians were murdered, 7,679 Churches and Christian properties were attacked, and 4,744 Christians were imprisoned for faith related reasons. Most of the violence against Christians is in African nations, where the majority of the world’s Muslims live and Islam is the continents largest religion behind Christianity. While the UN Secretary-General makes statements condemning religious hate, and the U.N. High Commission on Human Rights calls for measures to counter religious hatred and combat discrimination and violence due to religious intolerance, the U.N. has not imposed sanctions or penalties on countries that systematically persecute Christians. Instead, the United Nations home page promotes *Advancing human rights through education and social justice* and the *UN Sustainable Development Goals*.

World leaders and individuals have claimed the real purpose of the U.N. is to undermine national sovereignty and promote globalism. I’ve written extensively on the failure of the United Nations in achieving the Sustainable Development Goals of Agenda 2030 and the detrimental effects any of the progress that has been made on migration, “fighting” climate change and sustainability has had on people and countries.

UN scorecard on achieving its charter mission to preserve world peace, protect human rights and prevent future wars



UN efforts to promote globalism and build a “One World Government”



Addenda #68 – November 2025 Update

Re: Addenda #68 – November 2024

Ch. 8, 2050 Net-Zero Emissions; Impossible!

Ch. 9, Progressive States Climate Policies

SDG 13 – Take urgent action to combat climate change and its impacts

President Biden signaled his support for U.N. Agenda 2030 immediately after taking office in January 2021. He first announced plans to ‘electrify’ the entire fleet of about 380,000 federal vehicles (passenger vehicles, light, medium and heavy duty trucks, ambulances and buses) at an estimated cost to taxpayers of \$4.2 trillion. [Source: Addenda #67 – November 2024]

Then in August 2021, President Biden issued Executive Order 14037, mandating that 50% of all passenger cars and light-duty truck sales must be made up of battery electric, plug-in hybrid electric and fuel cell electric vehicles by 2030. In March 2024, the Biden Environmental Protection Agency (EPA) passed even more severe emissions standards on light-duty and medium-duty vehicles starting with model year 2027 and being completely “phased in” by model year 2032. The mandate ensured that fully electric, zero-emissions vehicles would have to be a substantial percentage of sales in order to reach the required 50% reduction levels. [Addenda #68 – November 2024]

Also in March 2024, the Biden EPA imposed new emissions regulations on heavy-duty vehicles beginning with model year 2027. Trucking industry advocates noted at the time that the new standards would more than double the cost of purchasing compliant semi-trailers and result in higher shipping costs that consumers would end up paying for. Promoters of the new standards didn’t care. [Addenda #68 – November 2024]

In March 2025, Trump EPA administrator Lee Zelden announced that the agency intended to “reconsider” more than 30 rules on greenhouse gas emissions put into place under the Biden administration. *“We are driving a dagger straight into the heart of the climate change religion to drive down cost of living for American families, unleash American energy, bring auto jobs back to the U.S., and more.... As we reconsider nearly \$1 trillion of regulatory costs, we will abide by the rule of law to protect consumer choice and the environment... There are people who, in the name of climate change, are willing to bankrupt the country.”* Environmentalists and supporters of U.N. Agenda 2030 reacted with fury and frustration. Climate alarmist Al Gore called the Trump administrations energy policy “an attempt to ignore reality” and “a tragedy for America.”

California has always experienced a higher degree of air pollution problems than other states due to its mountainous terrain which causes air pollution to be trapped above its most populous cities. The federal *Clean Air Act* allowed California the power to implement more stringent clean air and emissions regulations, making California standards the strictest in the nation. In 2005, Governor Arnold Schwarzenegger signed an executive order mandating an 80% reduction below 1990 levels by 2050. In 2006, the California Assembly passed the *Global Warming Solutions Act of 2006*, giving the California Air Resources Board (CARB) the authority to implement the emissions reduction program.

Since then, California reset the emissions target to a 100% emissions reduction (net-zero) by 2045, required all new car sales in the state to be zero-emission by 2035, required the sales of heavy-duty trucks to transition to 100% electric beginning in 2024, required sales of all “off road” engines (tractors, lawn mowers, leaf blowers, chain saws, etc.) to be electric beginning in 2024, and banning the sale of natural gas furnaces, space heaters and water heaters by 2030. California energy policies have led to the state having the highest energy cost in the continental United States, with residential electricity rates averaging \$0.3158 per kilowatt hour, almost 80% higher than the national average, and an average cost of \$4.64 per gallon of unleaded gas, 50% higher than the national average. According to CNBC’s annual competitiveness study, California is ranked the most expensive state in the nation, with a cost of living score of just 3 out of 50. Yes, policies do matter.

After the November 2024 elections, California decided to abandon regulations phasing out diesel trucks and requiring cleaner locomotives because the incoming Trump administration would be unlikely to allow the state to implement them. The California Air Resources Board (CARB) knew it was only a matter of time until new EPA administrator Lee Zelden would submit California’s Advanced Clean Fleet rule to Congress for a vote to revoke the waiver. On May 22, 2025, the U.S. Senate voted to revoke three waivers of preemption issued by the Biden EPA. Waivers permitting CARB to implement the *Advanced Clean Trucks Act* and the *Heavy-Duty Low NOx Omnibus Regulation*, were both revoked. While there are conflicting opinions about whether this use of the Congressional Review Act is legal or not, the new rulings stand, and California cannot mandate the shift from diesel semi-trucks to electric or require additional emissions reductions on heavy-duty trucks already in service on California highways. Another waiver permitting CARB to implement the *Advanced Clean Cars II* regulation, mandating reduced emissions and increased mileage standards beginning with model year 2026, effectively requiring all light-duty vehicles sold in California to be zero-emission by model year 2035.

Ten states had originally followed California’s lead on mandating the *Advanced Clean Trucks Act* and the *Heavy-Duty Low NOx Omnibus Regulation*, choosing to follow CARB rules instead of federal EPA rules on emissions. California, Oregon, Maryland, Massachusetts and Vermont had already postponed the enactment of regulations in their own states, after concluding that the rules are not economically or technologically feasible. Even before Donald Trump took office, auto manufacturers began scaling back efforts to achieve net-zero vehicle fleet production, as they finally began to acknowledge customers were not accepting electrification mandates at levels they had expected. The EV divisions of Ford Motor company were “hemorrhaging money”, leading Ford to pause a \$12 billion battery plant project, cut production of its F-150 Lightning truck and Mustang Mach-E. General Motors announced a “pivot” to hybrid vehicles, as sales of EV’s plummeted.

Despite all the evidence showing climate regulations are not working as intended and consumers are not willingly going along with the Sustainable Development Goals, Colorado, New Jersey, New Mexico, Rhode Island, Washington state and New York are still moving forward with their states plans to achieve net-zero vehicle and utility emissions.

Addenda #95 – November 2025

Ch. 8, 2050 Net-Zero Emissions; Impossible!

Ch. 17, S.D.G. Enforcement by Global Organizations

SDG 13 – Take urgent action to combat climate change and its impacts



This November, the UN Climate Conference ([COP30](#)) convenes in Belém, Brazil, bringing together leaders from governments, businesses, and civil society to tackle the defining challenge of our era. With global temperatures hitting record highs and extreme weather reshaping lives worldwide, the stakes couldn't be higher.

COP30 will spotlight the race to keep warming below 1.5°C, unveil new national climate plans (NDCs), and assess progress on critical finance commitments made at COP29.

*Join us in Belém from **10–21 November 2025** as the world charts a path toward a sustainable future.*

Even before the 30th annual climate change summit opened, there were signs that coming to a consensus on “new national climate plans” was going to be a difficult proposition.

EU struggles on climate plan ahead of Brazil conference

Divisions in the EU over emissions-cutting targets are stymieing work to reach an agreement on a climate plan in time to meet a UN deadline.

DW Global Media, September 18, 2025

“Environmental ministers” from the 27 member states of the European Union showed divisions in attempts to come up with an agreeable plan to cut emissions, in order to meet the legally binding agreements made at the 2015 Paris Agreement. (Reference: *A Clear and Present Danger – Threat #2*, Ch. 5 Agenda 2030) The *Emissions Gap Report 2025*, issued just prior to the opening of COP30 stated that, “available new climate pledges under the Paris Agreement have only slightly lowered global temperature rise over the course of this century, leaving the world heading for a serious escalation of climate risks and damages.”

There are several ways in which to interpret this statement. From the perspective of climate alarmists and supporters of UN Agenda 2030, it says we have not been doing enough, we need to do even more in order to achieve the goal of the Paris Climate Agreement.

Take urgent action to combat climate change and its impacts. (Agenda 2030 SDG #13)

From the perspective of people who look at climate change with *objective reality*, this statement says that the response by the Intergovernmental Panel on Climate Change in their 2018 Special Report *Global Warming of 1.5 °C*, was scientifically correct. U.N. climate scientists determined that reducing global warming to a level to halt climate change would require almost *impossible policies* to achieve.

“The report finds that limiting global warming to 1.5°C would require “rapid and far-reaching” transitions in land, energy, industry, buildings, transport, and cities. Global net human-caused emissions of carbon dioxide (CO₂) would need to fall by about 45 percent from 2010 levels by 2030, reaching ‘net zero’ around 2050.”

Special Report: Global Warming of 1.5°C, The Intergovernmental Panel on Climate Change, February 2018

Achieve a 45% reduction in emissions... within thirteen years!

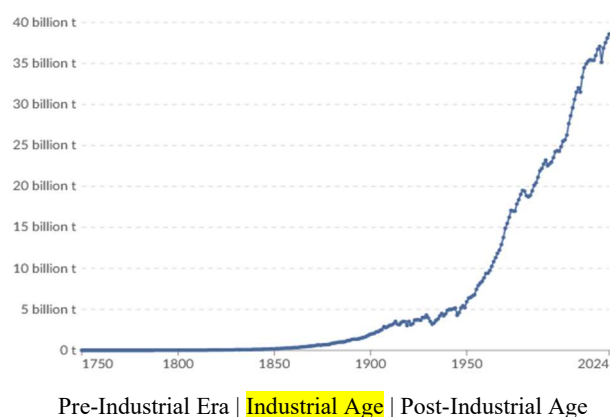
The report also stated that here was a “higher probability” of limiting warming to 1.5-Deg C if the net-zero 2050 mitigation pathway was pursued. *Probability*, not guarantee.

probability (noun): the chance that a given event will occur

Source: Merriam-Webster dictionary

The IPCC had already determined in 2014 that the key for effective climate mitigation was to bring average temperature change back to below 1.5-degrees Celsius by the year 2100. One year later, global Elites then agreed to this target, voting it into the *Paris Agreement*. The U.N. then directed the IPCC to come up with a special report on the impacts of global warming and how to return global warming to below 1.5°C.

Question: Isn't that an “ass-backward” process? Come up with a number, vote to mandate achieving it, then ask for scientific confirmation it could be achieved? Shouldn't they have voted on a mandate only after finding out if it was achievable or not?



Scientists agree that the rise in CO₂ Emissions began during the Industrial Age, a period of time characterized by the replacement of hand tools with power-driven machines and industrial factories. These machines and factories were fueled by the burning of coal to produce steam power, releasing greenhouse gases into the atmosphere in large quantities.

Source: OurWorldinData.org/co2-and-greenhouse-gas-emissions, November 2025

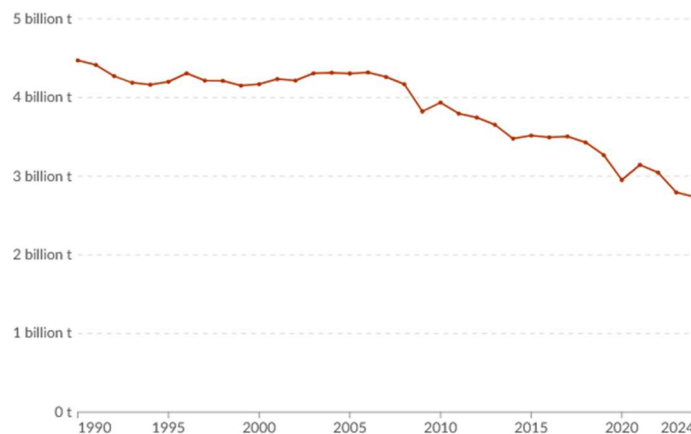
CO₂ levels have risen dramatically due to continued industrialization and population growth since 1950, from about 5.9 billion metric tons to 38.6 billion metric tons. Besides air pollution, smog, acid rain and associated health problems humans have experienced, high concentrations of greenhouse gases in the atmosphere have prevented the natural cooling of the earth's surface and resulted in increased global temperatures.

Global warming has been linked to the continued decline in sea ice and retreating glaciers as well as the increased number of heat waves, wildfires, hurricanes and other extreme events. I am not a “climate denier.” I acknowledge what man has done to this planet and that we need to become better stewards of our resources. I am, however, an objective thinker and I believe that the steps global Elites have been taking over the past decade are not working to mitigate global warming (climate change) but are doing serious harm to our economy and population. I also believe that mitigating global warming was never their intent anyway...

In November 2019, members of the European Parliament agreed to reduce CO2 emissions by 40% by 2030, compared to 1990 levels, and to achieve climate neutrality (net-zero emissions) by the year 2050. In September 2020, the European Commission voted to reduce emissions “by at least 55%” by 2030. In July 2025, Member States added an intermediate target of 90% reduction by 2040. The EU continued to double down on emissions goals, to show the world how serious they were in achieving the agreements of the 2015 Paris Climate Agreement and the sustainable development goals of the U.N. 2030 Agenda. But talk is cheap, so let’s look at how the European Union is progressing on its climate mandate.

Annual CO₂ emissions

Carbon dioxide (CO₂) emissions from fossil fuels and industry



In 1990, CO₂ emissions levels for the 28 member European Union were 4.47 billion tons.

By 2019, when the European Parliament agreed to the 40% reduction by 2030, CO₂ emissions had dropped to 3.27 billion tons.

By 2024, CO₂ emissions had dropped to 2.74 billion tons.

That’s a 16% decrease in 5-years and a 38% decrease from 1990. Pretty impressive, right?

Source: CO₂ emissions; Our World in Data, November 2025

In order to reach the 55% reduction mandate for 2030, the EU must cut emissions an additional 26.6% over a six year period. That’s an increase of almost 40% in what the EU has been able to achieve since they agreed to the new emissions targets.

EU agrees weakened climate target in final-hour deal for COP30

EU climate ministers agreed a 2040 climate change target in the early hours of Wednesday after watering down the goal in last-minute negotiations, as they raced to clinch the deal before the U.N. COP30 summit in Brazil.

After negotiating late into Tuesday night, climate ministers from European Union countries approved in a public vote a compromise to cut emissions 90% by 2040, from 1990 levels, but with flexibilities to weaken this aim.

Reuters, November 5, 2025

The “flexibilities” agreed to by EU “climate ministers” are the purchases of *carbon credits*, a green energy scam to begin with, that would count towards emissions reduction targets. Up to 5% of the 90% emissions reduction mandated by 2040 can be achieved by purchasing carbon credits. The EU agreement also opens the door to use carbon credits to meet an additional 5% of the emissions reductions target for 2040.

Ref: EU Emissions Trading Scheme, Addenda #48, June 2024

Without actually saying that they cannot meet legally binding emissions targets legitimately, EU climate ministers are finding a way to claim they *can* meet them, while also cutting back mandates on European industries that would severely reduce economic growth and cause increased costs to citizens of EU nations.

“Setting a climate target is not just picking a number, it is a political decision with far-reaching consequences for the continent” said Danish climate minister Lars Løkke Rasmussen.

“Therefore, we have also worked to provide comfort that it can be reached in a way that preserves competitiveness, social balance and security.”

Finally, a sane and logical statement from a political leader in the EU!

More than 56,000 global Elites, support staff, security, reporters and lobbyists attended the twelve day COP30 climate conference in Belém Brazil this month. They traveled hundreds of thousands of miles combined, mostly by private and chartered jets, releasing thousands of tons of CO₂ into the atmosphere. Note: 65 private jets flew into Heydar Aliyev International Airport at Baku Azerbaijan in November 2024, so global Elites could preach to the rest of the world about global warming and the need to reduce CO₂ emissions at COP29. “The number of arrivals by private jet we are seeing at COP29 puts front and centre the hypocrisy of using a private jet while claiming to be fighting climate change, particularly from an equity point of view. An executive taking one long-haul private flight will burn more CO₂ than several normal people do in an entire year,” said Denise Auclair of the *Travel Smart Campaign*, which promotes reducing corporate air travel emissions.

Once on the ground in Brazil, attendees traveled by luxury motor coach (releasing more emissions into the atmosphere), on the Avenida Liberdade highway to Belém. The new four lane highway, repeatedly delayed due to “environmental concerns”, had been completed earlier this year in order to bring attendees from the Val-de-Cans International Airport to Belém. During its construction, tens of thousands of acres of CO₂ absorbing trees in the “protected” Amazon rainforest were cut down. (Ref: Addenda #79, March 2025)

During the COP30 climate conference, global Elites pushed for a special tax on luxury flights, including business-class passengers and private jets. The ultra-rich, they claim, create far more emissions through luxury air travel, so they should compensate for the pollution they cause through a special tax. “It's only fair that those who have the most, and therefore pollute the most, pay their fair share,” Spanish Prime Minister Pedro Sanchez said. Members of the *Global Solidarity Levies Task Force* are targeting passengers flying first class and business class on commercial flights, as well as those flying on private jets. My question is, will global Elites travelling to climate conferences where they are “saving the planet” be exempt from these taxes?

In a 2017 interview with CNN's Jake Tapper, Al Gore said, "I don't have a private jet (he charts one instead) and what the carbon emissions come from my trips on southwest airlines are offset. I live a carbon-free lifestyle to the maximum extent possible." Gore lives in a 20-room, 10,000 plus square foot mansion in Tennessee, with solar panels, geothermal heating and cooling, rainwater collection, and energy-efficient lighting and insulation. Despite earning 'gold' certification from the U.S. Green Building Council for sustainable design, an analysis done by the National Center for Public Policy Research in 2017 found that Gore's home consumed 20 times more electricity than the average American household. The report found that Gore spent almost \$22,000 on electricity in a 12-month period. "Gore guzzles more electricity in one year than the average American family uses in 21 years."

Al Gore has gotten rich, in part, from investments in companies that will profit from the federal regulations he has promoted. With an estimated net worth in excess of \$300 million, Gore can easily afford \$1,800 monthly electricity bills and a tax on his private jet flights. The offsets he claims that make his chartered flights and 10,000 plus foot mansion carbon neutral, are purchases of carbon offsets, which range anywhere from \$10 to \$144 per metric ton of CO₂ emissions. The U.S. Environmental Protection Agency has a neat Carbon Footprint Calculator on its website, where you can enter your home energy usage, vehicle mileage and household waste produced. My wife and I produce an estimated 23,466 lbs., or 10.644 metric tons of CO₂ per year according to this calculator. If I buy \$106 in carbon offsets, I too can claim our carbon footprint is neutral, just like Al Gore! Just imagine what Al Gore's carbon offsets come to on *his* home energy and transportation emissions! Or Bill Gates. Or Jeff Bezos. Fifty of the world's richest billionaires on average produce more carbon through their investments, private jets and yachts in just over an hour and a half than the average person does in their entire lifetime, an October 2024 report published by Oxfam International revealed. *"The super-rich are treating our planet like their personal playground, setting it ablaze for pleasure and profit. Their dirty investments and luxury toys—private jets and yachts—aren't just symbols of excess; they're a direct threat to people and the planet."* Or, a "Clear and Present Danger"...

Global Elites also pledged billions to protect tropical rain forests and support Indigenous Peoples "communities and land rights," after cutting down millions of trees and permanently destroying those same peoples crop harvesting ability. Remember, it was *never* about "saving the planet." It has always been about control! Global Elites will be sure that they are never inconvenienced, even as they create policies that impose restrictions and crippling costs on the rest of us. The United States did not send a delegation to the COP30 conference, making it the first time since the COP1 conference in 1995 that the U.S. was not officially represented. However, climate action promoting states like California, did send representatives. California governor Gavin Newsom, showed up in Belém, to help build his credibility towards his 2028 presidential campaign. "California is a stable and reliable partner in low carbon, green growth," Newsom claimed. Anyone who has read A Clear and Present Danger, Threat #2 and Addenda's dealing with the failed California green energy plan, including this one, knows how ridiculous this claim is.

While former V.P. and climate alarmist Al Gore criticized the conference for not drafting an agreement to completely phase out fossil fuels, they did come to agreements on two key initiatives.

Initiative #1, was an agreement to help countries to transition away from fossil fuel use, double energy efficiency and triple renewable energy production. The *Conference of the Parties*, the supreme global Elites of the Convention, called for member nations to come up with a combined \$1.3 trillion annually by 2035, to help achieve these goals.

Note: President's Obama and Biden pledged a combined \$6 billion to the U.N. Green Climate Fund (GCF) but only delivered \$2 billion of that promised money. The \$4 billion balance was cancelled by President Trump after taking office in February 2025. GCF executive director Mafalda Duarte called for other countries not to pull back on pledges and to give even more to make up for the cancelled pledges.

The second initiative, the *Declaration on Information Integrity on Climate Change*, was signed by 12 member nations to fight “disinformation” about climate change, by “dismantling networks of climate lies and shielding evidence-based voices from harassment and attacks.” UN Secretary-General António Guterres said, “We must fight mis- and disinformation, online harassment, and greenwashing... Without access to reliable information about climate disruption we can never hope to overcome it.” The Declaration calls for the promotion of “consistent, reliable, accurate and evidence-based information on climate change,” to fight climate mis-and-disinformation. Climate misinformation includes telling the truth, that climate change efforts are *not* working and that events like COP30 don't make a difference.

Efforts to “dismantle networks” will almost certainly include the same flagging and censoring of social media posts and cancelling user accounts (deplatforming) Facebook and other social media platforms did during the Biden administration. It could also include the practice of “debanking” used during both the Obama and Biden administrations and by Canadian Prime Minister Justin Trudeau during the 2022 truckers protests in Canada. Wow, my blog may be labeled “misinformation” and I may be accused of “harassing and attacking Al Gore! How cool is that!

References: A Clear and Present Danger Threat #3, Ch. 4 The Fourth Industrial Revolution, Addenda #27 – Oct. 2024, Addenda #4 – Nov. 2023, Addenda #29 – Dec. 2024 and Addenda #40 – Oct. 2025

The combination of social media controls, digital identities (already being used in 50 countries) and digital currency (already in use in 52 countries) give global Elites powerful tools to fight climate mis-and-disinformation, which is why global Elites of the United Nations and World Economic Forum, have pushed so hard to get countries to adopt these plans. During the final days of the COP30 climate conference, Brazilian scientist Carlos Nobre issued a stark warning: fossil fuel use must fall to zero by 2040 – 2045 at the latest to avoid catastrophic temperature rises of up to 2.5°C by mid-century. That trajectory, he said, would spell the near-total loss of coral reefs, the collapse of the Amazon rainforest and an accelerated melt of the Greenland ice sheet. Sounds pretty drastic, right?

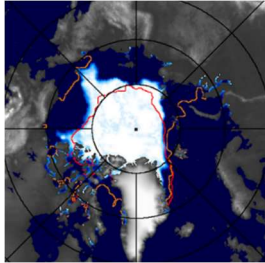
“A top climate scientist is warning that climate change will wipe out all of humanity unless we stop using fossil fuels over the next five years.”

Greta Thunberg, June 21, 2018 (Twitter tweet)

Note: Thunberg deleted her tweet in 2023, five years later...

“The chance that there will be any permanent ice left in the Arctic after 2022 is essentially zero.”

Harvard University professor James Anderson, January 15, 2018 (Forbes Magazine interview)



Note: While the Arctic ice cover in 2023 had receded significantly (a 43 percent decrease since 1979) NASA satellite images from September 2025 show ice stretching across the Arctic Ocean from the northern most provinces of Canada, to Russian islands in the Laptev, Siberian and Chukci Seas, a distance of around 1,000 miles.

NASA satellite image, September 24, 2025

“These figures are fresh. Some of the models suggest to Dr [Wieslaw] Maslowski that there is a 75 per cent chance that the entire north polar ice cap, during the summer months, could be completely ice-free within five to seven years.”

Al Gore, March 2009 (UN Climate Change Summit COP15)

“Entire nations could be wiped off the face of the Earth by rising sea levels if the global warming trend is not reversed by the year 2000.”

Noel Brown, Director of NY office of the U.N. Environment Program, June 29, 1989 (AP News)

“... 90 percent of tropical rainforests and 50 percent of species will disappear within 30 years.”

Stanford Biologist Paul Erlich, 1975

“The world has been chilling sharply for about twenty years. If present trends continue, the world will be about four degrees colder for the global mean temperature in 1990, but eleven degrees colder in the year 2000. This is about twice what it would take to put us into an ice age.”

Kenneth Watt, Professor of Environmental Studies at the University of California at Davis, 1970

And of course, there’s my personal all-time favorite...

“The world is gonna end in 12 years if we don’t address climate change”

U.S. House Representative Alexandria Ocasio-Cortez, January 22, 2019

Remember, facts don’t matter!! It’s all about the Agenda... **It’s all about control!!**

“The interesting thing about the Green New Deal, is it wasn’t originally a climate thing at all.... Do you guys think of it as a climate thing?” Because we really think of it as a how-do-you-change-the-entire-economy thing.”

Saikat Chakrabarti, chief of staff for Representative Alexandria Ocasio-Cortez, Washington Post, 2019

“It doesn’t matter what is true, it only matters what people believe is true.”

Paul Watson, Co-founder of Greenpeace

Addenda #37 – December 2025 Update

Re: Ch. 8, 2050 Net-Zero Emissions; Impossible!!

SDG 7 - Ensure access to affordable, reliable, sustainable and modern energy for all

SDG 3 – Ensure healthy lives and promote well-being for all at all ages

SDG 17 – Strengthen the means of implementation...

The background:

In the New York FY2023 state budget, Governor Kathy Hochul mandated the electrification of all school buses in NY state. By 2027, all new school bus purchases must be zero-emissions, and by 2035, all school buses on the road must be zero-emissions. Governor Hochul touted this mandate, claiming it would reduce emissions, result in better health outcomes for students and create hundreds of new jobs in the state.

Charging Forward: New York's Costly Rush to Electrify School Buses

Empire Center, November 4, 2022

A new law requires New York State's school bus fleet be entirely zero-emission by 2035. But the higher price of electric school buses relative to diesel buses, the cost of necessary new infrastructure to support electric buses, and the limited funding available for the transition make it unlikely that the state can achieve full electrification by that deadline.

Replacing all of the state's diesel-fuel school buses with electric buses will cost between \$8 and \$15.25 billion more than the cost of replacing them with new diesel buses. Of that amount, less than \$800 million – less than 10 percent of the transition cost – may be available from a combination of state and federal sources to help school districts and private fleet operators make the transition.

The extra cost of electric buses, their limited range compared to diesel buses, and their more rapid battery depletion in cold weather and hilly terrain will create substantial challenges for local school districts.

'In a Bind': Some New Yorkers Reject Transition to Electric School Buses, Despite Mandate

New York Focus, December 18, 2024

New York's push for electric school buses by 2027 has districts across the state struggling with voter approval and funding.

Of the state's 31 districts that tried to pass propositions this year specifically to purchase an electric bus, 10 had their measures rejected by voters, according to data compiled by the New York State School Boards Association.

New York Pushes Forward with Electric School Bus Mandate Despite Opposition

School Transportation News, March 5, 2024

"The reliability problem is a major drawback, but unfortunately just one among many when it comes to this still-new technology," said Borrello, citing a news article last week on experiences of Bethlehem Central School District near Albany, where five of seven electric buses were reportedly out of commission for repairs. "These buses carry an exorbitant price tag, not only for the vehicles themselves, but for the needed infrastructure and transmission upgrades, and their traveling range is far less than conventional buses, even in ideal weather conditions."

The Fayetteville-Manlius school district in Central New York sent out a newsletter this May, detailing the district's 2025-2026 School Budget which included the purchase of 6 diesel school buses. The newsletter noted that by New York state law, all school bus purchases must be electric beginning in 2027, preparing voters for inevitable cost increases. (The cost of a typical 70-83 passenger type C diesel school bus starts at \$140,000 while the electric version starts at \$320,000 before state or federal grants are applied.) The newsletter also included an article about a "trial run" the district conducted in February with an electric school bus to see how it would perform on typical F-M bus routes. The article title; *F-M conducts trial runs with electric buses; Performance falls short of expectations.*

The transportation department conducted two trials on different days, leaving the transportation center fully charged with enough battery to travel an estimated 94 miles according to the dashboard battery gauge. The New York State Energy Research and Development Authority (NYSERDA) website claims this bus has a range of 100 miles when fully charged, so the driver begins his run with 8% less range than advertised.

The first trial was conducted at temperatures ranging from 10 to 15 degrees. After traveling 45 miles, the battery had just 5% charge remaining. As I noted in the original Addenda #37, electric batteries lose their charge much quicker in colder weather, having to keep the components and occupants warm using battery charge for electric heat and leaving little room for error in case of travel delays. Note: Fayetteville NY had 16 days of below freezing temperatures in February; five of them at or below zero degrees with windchill.

The second trial was conducted at temperatures ranging from 20 to 25 degrees. The article stated "*Trial run 2 yielded better results, with 50% of the battery charge remaining after traveling 42 miles. This was due to the driver periodically turning down the heat inside the passenger cabin, a practice that is recommended to conserve battery energy.*" (Funny how *that* recommendation is never mentioned by Democrats promoting the benefits of electric buses your children will ride in) In temperatures below freezing, the bus would only be able to travel a little more than 80 miles, 20% less than it's rated distance. And *only* if the driver "periodically" turned down the temperature heating the cabin where dozens of children would be traveling 30 minutes or longer to school during the coldest months of the year.

The article noted that both trial runs were done on days with calm weather and clear roads. Imagine being stuck on a school bus on a windy, snowy day when the driver has to travel slower than normal, increasing the amount of time spent on a cold bus and depleting the battery charge even faster. This creates a potential safety hazard for the students, if they were ever to be stranded in winter weather with their only source of heat, electric batteries, rapidly losing their charge. The article continued...

At the end of trial 1, the bus was charged inside the bus maintenance garage, an option that would not be viable long-term. The estimated time to fully recharge the battery, as indicated by the bus's dashboard battery gauge, was 26 hours. Charging the electric bus outdoors proved to be problematic. When the electric bus was parked outside in the cold with a low battery, the bus blew a fuse multiple times. This is due to an increased need for energy to charge the battery and simultaneously run the heater to keep the battery warm.

Conclusions:

1. The range of the school buses, new “out of the box,” is not what they’re advertised to be. School districts may not be able to complete full schedules or as many runs per bus.
2. The range of the electric bus is further reduced by having to run heaters to keep the equipment and students from freezing in extreme weather conditions.
3. Problem #2 can be solved by turning heaters down or off “periodically.” But this affects the comfort and health of children traveling for extended periods of time in cold weather.
4. Inclement road conditions can increase the length of runs, leading to even more charge depletion. This is a potential safety issue for the dozens of elementary school children riding on electric buses.
5. Charging electric buses outside in cold weather further increases the charging time, creating situations in which the bus may not be able to return to service the following morning with a full charge to begin its first run.
6. Problem #5 can be solved by constructing indoor heated maintenance garages for storage and charging of buses during extreme weather conditions.
7. School Districts in cold winter climate locations will have to spend tens of millions of dollars on new transportation facilities capable of charging electric buses and protecting them during extreme weather conditions.

Lake Shore unveils 20 new electric buses with \$7.9M EPA grant

Observer, Dunkirk NY, July 2, 2025

ANGOLA — Lake Shore Central School District officially cut the ribbon Monday on 20 brand-new electric school buses, a milestone made possible through a \$7.9 million grant from the U.S. Environmental Protection Agency (EPA), championed by Senate Majority Leader Chuck Schumer as part of the Bipartisan Infrastructure Law. This marks one of the largest single-district electric bus deployments in New York State.

“This project represents years of planning, collaboration, and commitment to innovation,” said Superintendent Daniel Pacos. “We’ve replaced nearly half of our fleet with zero-emission buses — at virtually no cost to local taxpayers. These new buses will provide a quieter, healthier, and more efficient ride for our students while reducing emissions in our community.”

Parents raise concerns over heat issues in electric school buses in Lake Shore Central School District

WIVB4 News, Buffalo NY, December 18, 2025

ERIE COUNTY, N.Y. (WIVB) — On the heels of a statewide mandate requiring all school bus purchases in New York State be electric by 2027, parents in the Lake Shore Central School District are speaking out, claiming some bus drivers are turning the heat down, or off completely, in an attempt to conserve battery life on their electric school buses.

WIVB News 4 has received several calls from concerned parents in the school district, which covers parts of Angola, Brant, and Derby, regarding their child’s bus trips to and from school, claiming they’re coming in freezing when they get home after getting off the bus. The kids are coming home saying their bus is freezing cold and the parents are giving them hand warmers.

What was the conclusion of that Fayetteville Manlius trial again? Oh yeah, Performance falls short of expectations

Erie County had already endured thirteen days of temperatures *below freezing* when this article was written, including “real feel” temperatures below zero. Parents of children traveling on electric buses reported that their children were coming home saying their bus is freezing cold. When parents complained to the transportation department, they were told running the heat drains the battery capacity of the bus itself. Parents also reported that they had heard at least one electric bus had broken down and showed a photo of it being towed by a heavy tow truck, while children waited more than half an hour outside in freezing temperatures for its replacement to arrive. One woman that watches her grandson after school told reporters, “My grandson came home from school last week when it was 23 degrees. He said they didn’t have heat. He came in cold, and I told him, I said, ‘isn’t the bus warm?’ And he said ‘no, they can’t put the heat on because it drains the battery.’”

“This is the third year Lake Shore CSD has had zero emission buses in service. Our students enjoy the quiet ride...”

Perry Oddi, Transportation Supervisor, Lake Shore Central School District

“They’re” positive reviews” and effective climate change mitigation improving the air quality for our kids across the state, so, where these buses are in service, we’re seeing a lot of positive reviews”

Adam Ruder, Director for Clean Transportation at the New York State Energy Research and Development Authority (NYSERDA), May 23, 2025

“New York continues to lead the charge on prioritizing student health. This additional funding reflects the state’s commitment to delivering quiet, clean rides for the more than two million students who ride the bus to school in New York.”

Sue Gander, Director of World Resources Institute Electric School Bus Initiative, May 9, 2025

Prioritizing “student health” by forcing them to ride cold school buses...

Cold weather reduces range and reliability of electric buses, Cornell study finds

WAER 88.3 Syracuse Public Media (NPR), May 29, 2025

Moving to electric buses will have challenges. Cornell University researchers completed a two-year study in Ithaca and found that electric buses struggled with cold weather, becoming unreliable with reduced range.

Cornell researchers found that getting and keeping bus batteries at proper temperatures and keeping bus interiors heated consumed 48% more energy at temperatures between 25 and 32 degrees. They also found that the bus breaking is impacted by cold weather, leading to potential safety issues. Their solution is to have school districts build facilities large enough to keep electric buses inside during inclement weather while charging and not in service. The West Genesee Central School District recently proposed a \$77.9 million Capital Improvement Project, including electric charging infrastructure and a new 35,400 square foot transportation building. The proposed building would include just 8 maintenance and repair bays, with no storage for 112 electric buses that will eventually replace the existing diesel fleet. To construct indoor facilities for electric bus storage and charging would require more than 245,000 additional square foot structure, making the project “cost prohibitive.”

Note: The Capital Improvement Project Referendum was defeated by district taxpayers.

Hot Weather Impacts on Electric School Buses

Federal Joint Office of Energy and Transportation, Technical Assistance Help Sheet, July 2024

Electric school buses are proven to operate effectively in hot weather; however, extreme hot temperatures could adversely impact their range and efficiency... Hot temperatures (80°F and higher) can reduce vehicle efficiency and performance and require additional energy for cabin and battery cooling.

Ok, now we find out that electric buses do not operate efficiently at temperatures below 32 °F or above 80 °F. In 2025, there were 131 days of temperatures below 32°F and 73 degrees above 80 °F in Syracuse New York, where the Fayetteville-Manlius and West Genesee CSDs are located. Last year electric buses (or electric cars for that matter) would **not** have operated at their listed efficiency on 56% of days in the year. One study done by the Hong Kong Polytechnic University found that increased demand for heating and air conditioning under “extreme weather conditions” can reduce battery performance and reduce driving range by up to 50%. Think of your children riding an electric school bus in extreme cold or hot temperatures, the driver reducing or shutting down heating, air conditioning and ventilation to save battery range. Think of people riding public transportation electric buses under the same conditions. Think of you, riding in your electric vehicle, mandated by New York Democrats, having to choose between comfort and range.

SDG 7 - Ensure access to affordable, reliable, sustainable and modern energy for all

SDG 3 – Ensure healthy lives and promote well-being for all at all ages

Training current diesel bus mechanics to service and repair electric buses is going to be as much of a challenge as the actual performance issues electric buses (and cars) have.

Rush to deploy electric school buses raises worries over maintenance, safety issues

Herzog Foundation; The Lion, June 14, 2024

As hundreds of school districts nationwide work to replace gas-fueled school buses with electric ones, journalists and school officials are sharing concerns over maintenance and safety.

Districts in places such as Maine, New York, Michigan and California have reported issues with these buses – ranging from battery failure, steering problems and sudden power outages to charging logistics.

Anthony Watts, longtime meteorologist and founder of the award-winning “Watts Up With That” website, cautions against the “rapid push” to electrify public transport without considering the engineering challenges beforehand.

“The shift to electric buses is often touted as a necessary step towards combating climate change, yet the real-time execution of these policies must be scrutinized,” he wrote in a recent article. “Are we advancing towards a future of sustainability at the expense of present-day reliability and economic accessibility?”

EPA Has Funded 8,000+ Electric School Buses – But Demand Still Outpaces Funding
Electric School Bus Initiative, July 8, 2024

In less than two years, the U.S. Environmental Protection Agency's (EPA) Clean School Bus Program (CSBP) has funded more than 8,000 electric school buses in 49 states, four U.S. territories, Washington DC, and 55 Tribal school districts.

Let's do the math on Joe Bidens school bus replacement program for a minute...

1. President Biden set a goal to replace the entire fleet of U.S. diesel school buses, by allocating \$5 billion dollars to the *Clean School Bus Program* (CSBP) in 2021.
2. At that time, there were more than 475,000 school buses operated by over 11,000 school districts across the U.S.
3. Of that number, roughly 13,759 of those were electric school buses. That means there are still 466,764 diesel and gas fueled school buses in service to be replaced.
4. On December 30, 2025, the EPAs Clean School Bus Program webpage shows a total of \$2.622 billion of awards to 1,152 school districts, replacing 8,236 diesel school buses.
6. Based on those numbers, that's an average cost of \$318,452 per electric bus purchased.
7. At an average cost of \$318,452 per electric bus, it will take an additional \$148.641 billion to replace the remainder of the nation's diesel school bus fleet with electric buses.
9. There is \$2.377 billion remaining in funding for additional CSBB awards. By my math, that means there is a shortfall of more than \$146 billion in order to achieve Biden's goal.

Of course, Biden and the Democrats knew that would never be enough money to convert the nations school bus fleet. But getting enough votes to pass a bill including \$5 billion for that purpose would be a whole lot easier than getting enough votes to pass a bill including \$151 billion for that purpose. Biden figured he'd be elected for a second term in 2024, Democrats would retain or increase their control of the Senate and House, and he could go back to the well for that additional \$146 billion at a later date. Didn't quite work out that way though...

New York State commits to 100% electric school buses by 2035
electrek, April 8, 2022

Governor Kathy Hochul (D-NY) yesterday agreed a \$220 billion state budget with legislators, and it includes a plan to make the state's approximately 50,000 school buses 100% electric by 2035.

There are roughly 50,000 school buses on streets in New York State, polluting the communities they operate in with harmful emissions... "This plan makes New York the first state in the country to commit to fully electrifying its school bus fleet and sets a clear benchmark for other states looking to protect kids' health."

New York voters had no say in this decision, it was decided for them by progressive Democrat politicians. In November 2022, more than 3.5 million New York voters passed Proposal 1, the Environmental Bond Measure (EBM) and supported borrowing \$4.2 billion for projects related to the environment, natural resources, and water infrastructure, as well as projects classified as climate change mitigation. This included \$500 million for NYSEERDAs *New York School Bus Incentive Program* (NYSBIP) to fund school bus electrification, including the purchase of 45,000 diesel and gas school buses.

Now let's do the math on Kathy Hochul's school bus replacement program...

1. Governor Hochul set a goal to replace the entire fleet of N.Y. diesel school buses, by allocating \$500 million dollars to the *New York School Bus Incentive Program* in 2022.
Note: This program awards vouchers in varying amounts to help school districts with the Cost of new electric buses, chargers and electrical infrastructure.
2. At that time, there were approximately 45,000 diesel and gas school buses operated by 900 school districts across the state, that would have to be replaced over thirteen years.
4. As of this summer, the NYSBIP had awarded \$214.273 million in funding to 88 school districts, for the purchase of 685 new electric school buses, charging stations and infrastructure upgrades.
5. Based on EPA numbers above, the cost of each electric bus averages \$318,452.
6. Using that average cost per electric bus, it will take an additional \$14.1 billion to replace the remainder of the state's diesel school bus fleet with electric buses. This does not include any money for the infrastructure required to support their use.
7. As of December 2025, the NY State Energy Research and Development Authority (NYSERDA) has made three funding announcements totaling \$500 million from the NYSBIP for the purchase of zero-emission school buses.
8. There is \$0 remaining from the original Environmental Bond Measure allotment for the NYSBIP. By my math, that means there is still a shortfall of more than \$13.8 billion in order to achieve Hochul's zero-emissions school bus goal.

Of course, Hochul and the Democrats knew \$500 million would never be enough money to convert the nations school bus fleet when the bond measure was passed in 2022. But getting enough votes to pass a bill including \$500 million for that purpose would be a whole lot easier than getting enough votes to pass a bill including \$14.3 billion for that purpose. Hochul figured she'd be elected for a second term in 2026, Democrats would retain their control of the Senate and Assembly, and she could go back to the well for that additional \$14.3 billion at a later date. Sound familiar?

Note: In May 2025, Governor Hochul signed a bill extending the time to transition bus fleets to zero-emissions. School districts will have to apply for a waiver, showing difficulties they are having with the transition, as well as showing the progress they are making towards meeting that goal. The pressure put on Hochul when she is running for reelection, came from constituents, fellow Democrats and school districts citing costs involved and the financial burden on taxpayers. Experts in the field of zero-emission buses have noted the move won't work for all districts, especially Upstate New York school districts with large numbers of students, cold weather, and hilly terrain. National Grid officials have said the states electric grid is not yet ready to support 45,000 electric school buses. There is also a shortage of mechanics trained to maintain and repair electric systems in buses, charging infrastructure and indoor storage facilities for buses in areas with extreme weather conditions.

The proposed extension is for the start of mandatory bus purchases only, the 2035 end date for 100% fleet replacements has not changed. Schools will have to start later, have less time and little state support to complete the transition to electric buses, putting the burden on school districts to raise taxes and go deeper into debt to meet the governor's mandate. The vouchers NYSEERDA awards school districts are capped at maximum amounts for each electric bus purchase and for charging infrastructure, leaving school district taxpayers on the hook for the balance of spending required for fleet transition.

As of March 2025, only one Central New York school district had approved the purchase of an electric school bus. The rest continue to purchase diesel buses ahead of the 2027 start date. Superintendents of rural school districts worry about costs and reliability. Long Lake Superintendent and Principal Camille Harrelson stated, "Because we're a merged sports team, if we pick up our kids, go to Indian Lake to pick up those kids, and then travel to Chazy for a game, our buses can't make it back on an electrical charge. The area itself is just too great and too drastic." Rural utility companies don't have the resources to provide increased capacity required for charging electric buses either. There's no infrastructure for electric buses in this area. The electric companies don't have what they need to even support us to make that happen," Harrelson added.

Cummins CEO Says Mixed Fuel Approach is Key for Commercial Sector
School Transportation News, May 13, 2025

Jennifer Rumsey has spent the last 25 years at Cummins Inc., a global leader in diesel engines and power generation, first as a mechanical engineer and later as an executive. "I've seen us over the last several decades, we've made real progress, real impact together," she said, adding that even in terms of diesel engines, the industry has significantly reduced emissions and improved fuel efficiency. She noted in the article that "advancements in fuel injection systems, turbo chargers, after treatment and controls, have reduced NOx and particulate emissions by more than 98 percent in the U.S. and 90 percent globally. "To put that into perspective, today, it takes 60 class eight semis to emit what a single semi-truck emitted in 1988." According to Rumsey, Cummins has been able to improve per-gallon fuel mileage on heavy duty diesel engines by nearly 25 percent over the last fifteen years while reducing diesel engine greenhouse emissions by millions of metric tons. Rumsey says the balance between emissions reductions, fuel efficiency and engine reliability lies with the use of "mixed fuels" including batteries and biodiesel fuel, which will be "in the mix" for a long time yet. "We need to set clear and challenging but also achievable goals that drive innovation and allow the best technologies to compete and help meet the standards we set... no single solution will meet our broader goals."

Progressive Democrats supporting Agenda 2030 support the electric only option for a sustainable future. It is unachievable by 2027, by 2030, by 3035 or any other future date.

"It doesn't matter what is true, it only matters what people believe is true..."
Paul Watson, Co-founder of Greenpeace