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Contention 1 is Markets

Oil markets are stabilizing now, Wang 25'

Frances Wang [a reporter], 3-26-2025, "Commodity markets today: Oil Price Steadies as Global Supply Outlook Shifts," No Publication, <https://www.markets.com/research/commodity-markets-today-oil-price-steadies-as-global-supply-outlook-shifts>, accessed 3-28-2025 //RR

Today, attention centers on oil, where prices have found a moment of calm amid shifting perspectives on global supply. This steadiness emerges not from a single event but from a convergence of factors reshaping how energy flows are perceived. From geopolitical tensions to production adjustments, the oil market's current state offers a lens into broader commodity trends. This discussion delves into how these shifts influence oil and ripple across other commodities, shaping market behavior. **Oil Price Steadies as Geopolitical Tensions Ease** One driving force behind oil's steady footing is **a perceived reduction in geopolitical strain.** Recent developments in regions critical to oil production—such as tentative truce talks in conflict zones—have eased fears of immediate supply disruptions. When nations with significant reserves signal de-escalation, markets respond by recalibrating expectations. The possibility of uninterrupted flows from these areas has brought a sense of balance, countering earlier concerns that had kept traders on edge. This shift doesn't eliminate uncertainty entirely. Ongoing negotiations and fragile agreements mean the situation could pivot quickly. Yet, for now, the prospect of smoother supply lines from these hotspots has contributed to oil's current stability, influencing how participants view the broader energy landscape. **Oil Price Steadies on Production Adjustments** Another layer in **this story comes from the actions of leading oil-producing countries.** Nations with substantial output have hinted at tweaking their strategies, either maintaining current levels or preparing to adjust based on global demand cues. **This adaptability reflects a collective effort to stabilize markets, avoiding the sharp swings that disrupt planning for both producers and consumers.** These adjustments aren't unilateral. **Cooperation among key players—whether through formal alliances or informal understandings—plays a role in preventing oversupply or shortages. As these countries signal their intentions, the market absorbs the news, finding equilibrium.** This coordinated approach contrasts with past periods of volatility, offering a stabilizing anchor for oil and, by extension, related commodities.

Oil Price Steadies on Demand Signals **The demand side of the equation also shapes oil's current steadiness.** Major industrial regions, particularly those driving global manufacturing, are sending mixed but stabilizing signals. While some areas show signs of slowing activity due to trade policy shifts, others maintain steady consumption, buoyed by infrastructure projects and energy needs. This balance keeps oil demand from veering into extremes, supporting the market's even keel. Seasonal patterns add nuance here. As certain regions approach periods of heightened energy use—think heating or travel seasons—demand holds firm, offsetting softer patches elsewhere. This push-and-pull dynamic ensures that oil's global supply outlook remains fluid yet manageable, influencing how traders position themselves across commodity markets.

Nuclear power drastically reduces oil dependence, Scientific 24'

Scientific [likely humans], 5-1-24, "Nuclear Essentials," No Publication, <https://world-nuclear.org/nuclear-essentials/how-can-nuclear-combat-climate-change>, accessed 3-28-2025 //RR

Experts have concluded that in order to achieve the deep decarbonization required to keep the average rise in global temperatures to below 1.5°C, combating climate change would be much harder, without an increased role for nuclear. **Because nuclear power is reliable and can be deployed on a large scale, it can directly replace fossil fuel plant, avoiding the combustion of fossil fuels for electricity generation. The use of nuclear energy today avoids emissions roughly equivalent to removing one-third of all cars from the world's roads. Nuclear power plants, such as the Diablo Canyon power station in California, provide our societies with reliable and affordable electricity, day in and day out (Photo: Mike Baird)** **Modern society is becoming more and more dependent on electricity, with demand steadily increasing as transport, domestic heating and industrial processes are increasingly electrified.** Whilst electricity is clean at the point of use, its generation currently

produces over 40% of all energy-related carbon emissions. Decarbonising the electricity supply, whilst providing affordable and reliable electricity to a growing global population, must be central to any climate change strategy. Nuclear energy has shown that it has the potential to be the catalyst for delivering sustainable energy transitions, long before climate change was on the agenda. **France generates over 70% of its electricity from nuclear power – the largest nuclear share of any country globally – and its electricity sector emissions are one-sixth of the European average. In around 15 years, nuclear power went from playing a minor role in the French electricity system to producing the majority of its electricity, showing that nuclear energy can be expanded at the speed required to effectively combat climate change.**

Adams 13 continues

(Rod Adams is the USS Von Steuben former engineer officer, 12/10/13, "Do oil and gas suppliers worry about nuclear energy development?" ANS Nuclear Cafe, pg. online @ <http://ansnuclearcafe.org/2013/12/10/do-oil-and-gas-suppliers-worry-about-nuclear/>) //RR

Carol Browner, who served as the Environmental Protection Agency administrator in a Democratic administration, insisted that **nuclear energy** has an important role to play in **reducing fossil fuel dependence** and reducing CO2 emissions. Those examples show that the most receptive audiences for the nuclear energy alternative are people who buy a lot of fuel without selling any, and people who are deeply concerned about air pollution and climate change. The former understand that having additional supplies of reliable power will mean more competition to provide more stable and lower prices. The latter group knows that we cannot continue to dump CO2 into the atmosphere at an ever-increasing rate without unexpected consequences. It's time to get more aggressive in nuclear energy marketing. The uranium industry should teach people how heat is fungible in order to excite its potential supporters and capture attention from energy pundits. **Nuclear fission heat has already reduced the world's dependence on oil;** there is plenty of remaining opportunity. **Nuclear energy pushed oil out of the electricity market in most of the developed world. Fission has replaced oil combustion in larger ships, but most others still burn oil. Nuclear-generated electricity has replaced oil burned for locomotives, city trolleys, and space heat, but there is room for substantial growth in these markets.** Uranium producers should be influential members in the coalitions that are working to electrify transportation systems. **Fission heat, especially with higher temperature reactors, can replace oil heat in industrial processes, including those well-proven processes that can turn coal, natural gas, and biomass into liquid fuels. Fission can also reduce oil use by pushing gas out of the power generation business, thus freeing up more natural gas for other uses.** As the gas promoters love to point out, **methane is a flexible and clean burning fuel.** It is important to remind their customers that fuel burned in power plants is not available for any other use.

Lack of demand destroys OPEC countries, Manley nd.

David Manley, xx-xx-xxxx, "Stranded Nations? The Climate Policy Implications for Fossil Fuel-Rich Developing Countries," No Publication, https://www.academia.edu/33264362/Stranded_Nations_The_Climate_Policy_Implications_for_Fossil_Fuel_Rich_Developing_Countries?hb-sb-sw=6555023, accessed 3-28-2025 //RR

Developing countries rich in fossil-fuels face a unique challenge posed by climate change. They seek to extract fossil fuels at a time when the global community must reduce carbon emissions. Effective global **climate policies** and low carbon technologies will likely **reduce the demand for fossil fuels, creating** the risk of **'stranded nations'—where resources under the ground become commercially unattractive to extract** and a substantial share of a **nation's wealth** may permanently **lose its value.** This constitutes a parallel to the stranded assets

challenge faced by the private sector. We identify three key challenges faced by fossil-fuel rich developing countries. First, **we show that these countries are highly exposed to a decline in fossil fuel demand, with their median ratio of oil and gas reserves to GDP is 3.66, compared with a median for non-FFRCs of 0.58. Second, they are less able to diversify away from this risk than fossil fuel companies or investors - oil companies on average hold only around 13 years of reserves on their balance sheets, whereas FFRDCs hold a median of 45 years of known reserves at current production rates. Third, these countries often find themselves under pressures to implement policies that may expose them to further risk.** For example, supporting fossil fuel linked infrastructure and skills that relies on long time horizons for payoffs to the country, subsidising fossil fuel consumption that extends carbon-intensity of production, or by investing state capital in fossil fuel linked assets such as national oil companies. In response, we identify four policy implications arising from this carbon market risk that fossil-fuel rich developing countries should consider. While several of the policy recommendations align with general good practice, we show that the prioritisation, sequencing and in some cases direction of these policies require modification when considering the risks posed by a global shift away from fossil fuels.

And, OPEC will flood the market immediately. Rahemtulla 13'

Rahemtulla, 13 (Karim Rahemtulla, Chief Resource Analyst for Oil & Energy Daily, "Will Saudi Arabia Go Nuclear With An Oil Supply Shock?", Oil & Energy Daily, 7/30/2013, <http://www.oilandenergydaily.com/2013/07/30/saudi-arabia-oil-supply/>) //RR

Saudi Arabia is home to the world's most prolific, consistent daily production of crude oil and the second-largest reserves in the world. The kingdom currently produces 12.5 million barrels per day. It has the capacity to produce another 2.5 million barrels per day. There just isn't enough demand at current prices. Through its influence over OPEC, it can pretty much set the price for more than one third of the world's daily oil usage of around 100 million barrels. So even if it doesn't sell as much oil to the United States – most of our imports come from Canada, Venezuela and Mexico – Saudi Arabia is still a major factor in the price of the oil that we consume. More importantly, the Saudi royal family will do anything to maintain their grip on their kingdom, as well as their own personal power, prestige and wealth. If that means selling oil at a loss, so be it. The kingdom has NO other source of income and NO other choice. If Saudi Arabia were to feel a genuine threat, it could open the spigot and flood the market... literally. The other OPEC members would follow suit, as most are in the same boat as Saudi Arabia – with no other source of revenue and leaderships that are dependent on the largesse from oil sales. And if you want to get an idea of what can happen in an industry when supply increases faster than demand, or when prices plunge by more than half, just look at what happened to natural gas prices over the past decade. Wells sit idle and companies cut back production. So while oil may be trading at \$106 per barrel today, it could just as easily be trading at half that price a few years from now, and that's not even counting the increasing downward pressure from alternative energy sources like natural gas. And that would deal a serious blow to the dream of U.S. energy independence.

It escalates - Clarkson 24'

Alexander Clarkson, 9-25-2024, "Falling Oil Prices Could Trigger the Next Geopolitical Shock," World Politics Review, <https://www.worldpoliticsreview.com/oil-opec-energy-markets/?one-time-read-code=3282301743205589153546>, accessed 3-28-2025 //RR

As the carnage unfolding on battlefields in Ukraine, Gaza and Lebanon understandably dominates global headlines, a recent decline in energy prices that has the potential to turn the world upside down has barely been noticed outside the industries involved. But given the role that energy prices often play as an underlying factor shaping global crises, if the fall in oil and natural gas prices over the past few months turns out to be a lasting trend rather than just a temporary blip, the world could be on the cusp of a geopolitical shock whose impact would be as great as any battlefield developments. Over the past year, a range of factors, including interest rate cuts by the U.S. Federal Reserve, signs of distress in China's economy and concerns about economic growth in Europe, have contributed to the creeping decline of oil prices to \$73 per barrel this month, down from eye-watering highs of \$120 per barrel after Russia's invasion of Ukraine in February 2022. But investors and analysts remain unsure about whether this is a long-term trend. In addition to lingering uncertainty over the extent to which OPEC member states, particularly Saudi Arabia, will react to declining prices, as well as Russia's opaque role as it tries to circumvent U.S. and European Union sanctions on its energy sector, several other factors could generate

further big shifts in global energy markets. Perhaps the most consequential though often underappreciated recent change to those markets is the transformation of the U.S. in the late 2010s from a net energy importer to a net exporter of oil and the leading exporter of gas. Whether U.S. energy self-sufficiency will give Washington greater scope to shift the dial when it comes to global energy prices remains unclear. But a scenario in which the U.S. can reshape energy market trends in its own strategic interest could weaken the ability of Saudi Arabia and other OPEC states to do so for theirs. If the current decline of energy prices turns out to be lasting, it would have an immense impact on every global region. But in addition, it would have consequential effects on three key dynamics that are at the heart of so many of today's geopolitical crises as well as global political change more broadly: authoritarian regimes pursuing wars of expansion, fragile states wracked by civil conflict and the technological restructuring driving the green energy transition in industrial democracies. Accelerating declines in the price of oil and gas could throw

the strategic calculus behind all three trends out of whack. **The most sudden impact** of a lasting decline in energy prices **would be felt by oil-exporting authoritarian regimes pursuing aggressive and** hugely **expensive efforts to expand their**

influence and in some cases their territory, with the clearest example being Russia. President Vladimir Putin's regime has become dependent on energy export revenues to wage its war of conquest against Ukraine while trying to sustain peacetime levels of economic prosperity, at a time when the breakeven price for Russia's oil production is estimated to be above \$94 per barrel. Though Russian producers play an important role in other commodity markets, a lasting decline in oil prices would vastly complicate the Russian state's effort to balance the current surge in military production with a simultaneous surge of spending designed to cushion the Russian population from the social impact of endless war. The impact of sustained falls in energy prices would be felt more quickly in oil-producing states, but such a fundamental shift in the global economy would also have profound effects on oil-consuming economies. Just as a decline in oil prices during the 1980s put the Soviet Union under immense economic pressure, **the Putin regime would face stark strategic choices that high**

oil prices have helped it avoid. While such a dynamic is unlikely to halt Putin's obsessive efforts to destroy Ukraine, the pressure it would put on Russia's economy could hamper his ability pursue the kind of relentless war of attrition that is currently the foundation of Russian military strategy. Though other social and economic factors are also crucial to Russian state power, trends in energy markets are a variable that any analysis of Russia's potential trajectory needs to take into account. An energy price dynamic that spirals **downward out of OPEC's control** would also have destabilizing effects on other ambitious

authoritarian states. In an environment where oil prices fluctuate between \$50 and \$60 per barrel, **it is difficult to see how Saudi Arabia could still pursue the extravagantly ambitious program of city-building and economic transformation at the heart of Crown Prince Mohammed bin Salman's effort to legitimize his grip on power. Similarly, lower oil prices would make it more difficult for the theocratic regime governing Iran, which is already struggling under the weight of U.S. sanctions on its oil industry, to prevent economic disruption from fueling unrest at home, while also putting greater constraints on its ability to finance proxy militias essential to its bid for regional dominance in the Middle East.** While a fall in oil prices can **put** aggressive authoritarian **regimes under intense pressure**, it would also **destabilize** energy-producing **states** that have been **weakened by corruption and civil conflict.** In **Libya**, a collapse in prices **would exacerbate the battle for control** of oil and gas infrastructure **between rival armed factions** whose power structures depend on energy sector revenues. With less money to go around, pressure to seize oil and gas fields controlled by rival groups in order to sustain the cash flow needed to reward supporters and buy weapons **would in all likelihood lead to a return of all-out civil war on multiple fronts across the country. Though Libya is a unique case in several respects, the strains from low oil prices could have similarly destabilizing effects on states that are already facing economic crises exacerbated by ongoing insurgencies, like Nigeria and South Sudan. For a Nigerian government struggling to implement reforms and fight insurgents, a further fall in revenue could paralyze the state's ability to maintain order in much of the country. With rampant jihadist insurgencies rapidly spreading across West Africa and the Sahel region, the effects of a further deterioration of conditions in Libya and Nigeria would be felt widely across Africa, Europe and the Middle East. The impact of sustained falls in energy prices would be felt more quickly in oil-producing states, but such a fundamental shift in the global economy would also have profound effects on**

oil-consuming economies. Though the long-term implications are still unclear, it is difficult to see how a transition toward a carbon-neutral economy would not be affected by oil and gas prices that are significantly lower than policymakers had anticipated. Whether it is the adoption of electric vehicles or expansion of renewable energy sources, calculations based on the cost of such a transition when the price of oil is above \$100 per barrel might have to be rethought in a world in which prices are trending toward \$50 per barrel. With the price at the pump for the average driver lower than initially anticipated, policymakers will have to find new incentives to encourage the mass adoption of EVs, which underpins so many key strategic goals when it comes to green transition strategies. And broader changes in consumer behavior needed to achieve deeper economic transformation will also require more active state intervention in Europe and North America in a world of much lower energy prices. Though there are many variables in play when it comes to these transformation processes in the U.S., the EU and even China, it is likely that many of the policy initiatives designed to encourage a carbon-free economy would not survive such a huge change in cost pressures in their current form. Even with such a fundamental part of the global economic order as energy prices, however, anyone studying geopolitical change should avoid the "this one big thing explains everything" fallacy, which has led to so many failed policies in the past. When it comes to the fate of authoritarian regimes, struggling societies or the transition to carbon-neutral supply chains, there are many other social, economic and political variables at play that are of equal importance. A collapse in oil and gas prices will not suddenly stop the Putin regime's efforts to conquer Ukraine, ensure a decisive victory for one side or the other in Libya or bring the transition to a carbon-neutral economy entirely to a halt. Yet there are few other structural factors that affect so many different states, trends and crises at the same time as the trajectory of oil and gas prices. With the strategies of every great power vulnerable to trends in energy markets, sudden shifts in oil prices have the potential to turn a seemingly robust regime or policy initiative into a fragile house of cards. And if the current downward trend in energy prices ends up being long-lasting, strongmen who once seemed invincible will flail in desperation as their elaborate plans are torn apart by the laws of supply and demand.

Instability draws in great powers. Lantier 19'

Alex Lantier 19, PhD @ Geneva, Freelance Journalist that reports on Middle Eastern foreign affairs; "Syrian army, Iran threaten counterattack against Turkish invasion of Syria"; World Socialist Web Site; 10-14-2019; <https://www.wsws.org/en/articles/2019/10/14/syri-o14.html//AES>

After three decades of US-led wars, the outbreak of a third world war, which would be fought with nuclear weapons, is an imminent and concrete danger. At the same time, military tensions between Iran and Saudi Arabia are surging amid mutual attacks on tankers carrying Persian Gulf oil supplies that are critical to the world economy. Last month, the US and Saudi governments blamed a September 14 missile attack on Saudi oil facilities that caused a sharp rise in world oil prices on Iran, without providing any evidence. Then on October 11, two missiles hit the Iranian tanker Sabiti off Saudi Arabia's Red Sea coast. Ali Shamkhani, the secretary of the Iranian Supreme National Security Council, said yesterday that Iran would retaliate against unnamed targets for the attack on the Sabiti. "A special committee has been set up to investigate the attack on Sabiti... Its report will soon be submitted to the authorities for decision," Shamkhani told Fars News. "Piracy and mischief on international waterways aimed at making commercial shipping insecure will not go unanswered." Saudi officials declined to comment on the Sabiti attack, and officials with the US Fifth Fleet in the Gulf sheikdom of Bahrain claimed to have no information on it. But there is widespread speculation in the international media that the attack was carried out by Saudi Arabia or with its support. **The conflicts** erupting between the different capitalist regimes **in the Middle East pose an imminent threat not only to the population of the region, but to the entire world.** Workers can give no support to any of the competing military plans and strategic appetites of these reactionary regimes. **With America, Europe, Russia and China all deeply involved** in the proxy war in Syria, a **large-scale Middle East war could strangle the world oil supply and escalate into war between nuclear-armed powers.** The working class is coming face to face with the real possibility of a Third World War. The Kurdish-led SDF militias in Syria, vastly outgunned by Turkish forces and vulnerable to air strikes, warned US officials in talks leaked by CNN that they would appeal for Russia to attack Turkey and protect SDF and Syrian army forces. As Turkey is legally a NATO ally of Washington and the European powers, such an attack could compel the United States and its European allies to either break the 70-year-old NATO alliance or go to war with Russia to protect Turkey.

The draw-in causes extinction.

Clare 23 [Stephen Clare, former research fellow @ the Forethought Foundation, 6-xx-2023, Great power war, 80,000 Hours, <https://80000hours.org/problem-profilesgreat-power-conflict/>] //RR

A modern great power war could see nuclear weapons, bioweapons, autonomous weapons, and other destructive new technologies deployed on an unprecedented scale. It would probably be the most destructive event in history, shattering our world. It could even threaten us with extinction. We've come perilously close to just this kind of catastrophe before.¶ On October 27, 1962 — near the peak of the Cuban Missile Crisis — an American U-2 reconnaissance plane set out on a routine mission to the Arctic to collect data on Soviet nuclear tests. But, while flying near the North Pole, with the stars obscured by the northern lights, the pilot made a navigation error and strayed into Soviet airspace.1¶ Soviet commanders sent fighter jets to intercept the American plane. The jets were picked up by American radar operators and nuclear-armed F-102 fighters took off to protect the U-2.¶ Fortunately, the reconnaissance pilot realised his error with enough time to correct course before the Soviet and American fighters met. But the intrusion enraged Soviet Premier Nikita Khrushchev, who was already on high alert amidst the crisis in Cuba.¶ "What is this, a provocation?" Khrushchev wrote to US President John F. Kennedy. "One of your planes violates our frontier during this anxious time when everything has been put into combat readiness."¶ If the U-2's path had strayed further west, or the Soviet fighters had been fast enough to intercept it, this incident could have played out quite differently. Both the United States and the USSR had thousands of nuclear missiles ready to fire. Instead of a nearly-forgotten anecdote, the U-2 incident could have been a trigger for war, like the assassination of Franz Ferdinand.¶ Competition among the world's most powerful countries shapes our world today. And whether it's through future incidents like the lost U-2, or something else entirely, it's plausible that it could escalate and lead to a major, devastating war.¶ Is there anything you can do to help avoid such a terrible outcome? It is, of course, difficult to imagine how any one individual can hope to influence such world-historical events. Even the most powerful world leaders often fail to predict the global consequences of their decisions.¶ But I think the likelihood and severity of great power war makes this among the most pressing problems of our time — and that some solutions could be impactful enough that working on them may be one of the highest-impact things to do with your career.¶ By taking action, I think we can create a future where the threat of great power war is a distant memory rather than an ever-present danger.¶ Summary¶ **Economic growth and technological progress have bolstered the arsenals of the world's most powerful countries.** That means the next war between them could be far worse than World War II, the deadliest conflict humanity has yet experienced.¶ Could such a war actually occur? We can't rule out the

quick, limited conflict. But escalation proves hard to predict ahead of time (perhaps because people are scope-insensitive, or because escalation depends on idiosyncratic decisions). This raises the possibility of enormous wars that threaten all of humanity.

Contention 2 is Water

Water Quality has been improving. GAO 24

Gao [an organisation], September 2024, "Water Quality and Protection," No Publication, <https://www.gao.gov/water-quality-and-protection>, accessed 3-31-2025 //MA

Safe and clean water is necessary for human and environmental health and the nation's economic well-being. **Over the past 50 years, the nation's water quality and drinking water have improved**, but threats to water quality and safety remain. For example, the Environmental Protection Agency (EPA) and the states have identified almost 70,000 water bodies nationwide that do not meet water quality standards. Further, studies show that most people in the U.S. have been exposed to per- and polyfluoroalkyl substances (PFAS)—likely from contaminated water, food, or air. Known as forever chemicals, they can persist in the environment and cause adverse health effects. Additionally, emerging contaminants near military bases and other communities has renewed awareness about the risks that lead and other chemical compounds pose to public health. Nation states, cybercriminals, and hacktivists have also attacked the nation's water and wastewater systems, making cybersecurity a top concern. Examples of How Per- and Polyfluoroalkyl Substances (PFAS) Enter the Environment Examples of How Per and Polyfluoroalkyl Substances Enter the Environment The EPA and other federal agencies face a number of challenges in ensuring that the nation has access to safe and clean water. For instance: Contaminants. Under the Safe Drinking Water Act (SDWA), EPA establishes legally enforceable standards that limit the levels of specific contaminants in drinking water. EPA identifies unregulated contaminants, monitors them, and determines whether to regulate them based on things like how dangerous they are to public health, and how often they occur. Public water systems must comply with monitoring, reporting, and other requirements established by EPA and responsible states. But the data that states reported to EPA did not always reflect the frequency of health-based and monitoring violations by community water systems or the status of enforcement actions. Regarding certain PFAS contaminants, public water systems will need to implement a treatment method by 2029. But treating PFAS in drinking water also creates waste that needs to be properly disposed of to avoid future environmental contamination.

However, Nuclear energy is bad for biod

Harvey **Wasserman 16**, American journalist, author, democracy activist, and advocate for renewable energy, strategist and organizer in the anti-nuclear movement in the United States for over 30 years, "How Nuclear Power Causes Global Warming", Progressive, Sept 21 2016, //RR

Supporters of nuclear power like to argue that nukes are the key to combatting climate change. Here's why **they are dead wrong**. Every nuclear generating station spews about two-thirds of the energy it burns inside its reactor core into the environment. **Only one-third is converted into electricity. Another tenth of that is lost in transmission.** According to the Union of Concerned Scientists: **Nuclear fission is the most water intensive method** of the principal thermoelectric generation options in terms of the amount of water withdrawn from sources. In 2008, nuclear power plants withdrew eight times as much freshwater as natural gas plants per unit of energy produced, and up to 11 percent more than the average coal plant. Every day, **large reactors** like the two at Diablo Canyon, California, individually **dump** about **1.25 billion gallons of water into the ocean** at temperatures up to **20 degrees Fahrenheit warmer than the natural environment**. Diablo's "once-through cooling system" takes water out of the ocean and dumps it back **superheated, irradiated and laden with toxic chemicals**. Many U.S. reactors use cooling towers which emit huge quantities of steam and water vapor that also directly warm the atmosphere. These emissions are often chemically treated to prevent algae and other growth that could clog the towers. Those chemicals can then be carried downwind, along with radiation from the reactors. In addition, hundreds of thousands of birds die annually by flying into the reactor domes and towers. The Union of Concerned Scientists states: **The temperature increase in the bodies of water can have serious adverse effects on aquatic life**. Warm water holds less oxygen than cold

water, thus discharge from once-through cooling systems can create a “temperature squeeze” that elevates the metabolic rate for fish. Additionally, suction pipes that are used to intake water can draw plankton, eggs and larvae into the plant’s machinery, while larger organisms can be trapped against the protective screens of the pipes. Blocked intake screens have led to temporary shut downs and NRC fines at a number of plants. And that’s not all. All nuclear reactors emit Carbon 14, a radioactive isotope, invalidating the industry’s claim that reactors are “carbon free.” And the fuel that reactors burn is carbon-intensive. The mining, milling, and enrichment processes needed to produce the pellets that fill the fuel rods inside the reactor cores all involve major energy expenditures, nearly all of it based on coal, oil, or gas. And of course there’s the problem of nuclear waste. After more than a half-century of well-funded attempts, we’ve seen no solution for the management of atomic power’s intensely radioactive waste. There’s the “low-level” waste involving enormous quantities of troublesome irradiated liquids and solid trash that must be dealt with outside the standard civilian waste stream. And that handling involves fossil fuels burned in the process of transportation, management, and disposal as well. As for the high-level waste, this remains one of humankind’s most persistent and dangerous problems. Atomic apologists have claimed that the intensely radioactive spent fuel rods can somehow be usable for additional power generation. But after a half-century of efforts, with billions of dollars spent, all attempts to do that have utterly failed. There are zero successful reactors capable of producing more reactor fuel than they use, or able to derive more energy from the tens of thousands of tons of spent fuel rods they create. Some reactors, like Fukushima, use “mixed-oxide” fuels that have proven to be extremely dirty and expensive. It’s possible some of this “MOX” fuel containing plutonium, actually fissioned at Fukushima Unit Three, raising terrifying questions about the dangers of its use. The mushroom cloud that appears on video as Fukushima Unit Three exploded stands as an epic warning against further use of these impossible-to-manage fuels. The MOX facility under construction near Aiken, South Carolina, is now projected to require another ten years to build with another ten possible after that to phase into production. U.S. Secretary of Energy Ernest Moniz said on September 13, 2016, at the Carnegie Endowment for International Peace that the mismanaged project was “impossible” to carry out and that it could cost \$30 billion to \$50 billion. Even the current pro-nuclear Congress won’t fully fund the project and the Department of Energy DOE continues to recommend abandoning it. There are no credible estimates of the global warming damage done by the intensely hot explosions at the four Fukushima reactors, or at Chernobyl, or at any other past and future reactor meltdowns or blowups. Atomic apologists argue that the disposal of high-level reactor wastes should be a relatively simple problem, lacking only the political will to proceed. The industry touts New Mexico’s Waste Isolation Pilot Project, or WIPP, which has long been the poster child for military attempts to deal with high-level trash from the nuclear weapons program. Accepting its first shipment of waste in 1999, WIPP was touted as the ultimate high-tech, spare-no-expense model that proved radioactive waste disposal “can be done.” But a series of disastrous events in February, 2014, led WIPP to stop accepting wastes—the sole function for which it was designed. Most significant was the explosion of a single barrel of highly radioactive waste materials (it was mistakenly packed with organic rather than clay-based kitty litter). About a dozen WIPP workers were exposed to potentially harmful radiation. The entire facility remains closed. In a phone interview, facility management told me it may again accept some wastes before the end of this year. But at least part of the cavernous underground labyrinth may never be reopened. The Los Angeles Times estimated the cost of this single accident at \$2 billion. Overall, the idea that atomic power is “clean” or “carbon free” or “emission free” is a very expensive misconception, especially when compared to renewable energy, efficiency, and conservation. Among conservation, efficiency, solar and wind power technologies, there are no global warming analogs to the heat, carbon, and radioactive waste impacts of nuclear power. No green technology kills anywhere near the number of marine organisms that die through reactor cooling systems. Rooftop solar panels do not lose ten percent of the power they generate to transmission, as happens with virtually all centralized power generators. S. David Freeman, former head of numerous large utilities and author of *All Electric America: A Climate Solution and the Hopeful Future*, says: “Renewables are cheaper and safer. That argument is winning. Let’s stick to it.” No terrorist will ever threaten one of our cities by blowing up a solar panel. But the nuclear industry that falsely claims its dying technology doesn’t cause global warming does threaten the future of our planet.

Overall, Poor Water quality kills biodiversity. Bagayas 24

Mckenzie Bagayas, a human, 5-21-2024, "How Does Water Pollution Affect Aquatic Biodiversity," Kraken Sense, <https://krakensense.com/blog/water-pollution-aquatic-biodiversity>, accessed 3-27-2025 //MA

“Living species variations from sources that include terrestrial, marine, different aquatic ecosystems and also ecological groups to which they belong: including diversity among species and also ecosystems.” This is the well-accepted definition of biodiversity that was made by the United Nations Convention on Biological Diversity. Biodiversity could also refer to the variety of life on Earth. Variety of life and living things can come in the form of genetic diversity among species within an ecosystem and diversity of ecological systems. Biodiversity may also include evolutionary, ecological, and cultural processes that sustain life. Biodiversity is not solely about rare, threatened, and endangered species. Instead, biodiversity is about the interconnectedness of all living things. Although we, humans, are just a single species amidst all of the living things present on this Earth, we are the only species whose actions can have a huge impact on biodiversity. With that said, we have the obligation to try our best to practice biodiversity conservation. Biodiversity - Why is it important People value biodiversity differently, some through a utilitarian lens while others value their intrinsic value. Biodiversity in some form or way is capable of providing for our basic needs like food, fuel, shelter, and even medicine. This is where the utilitarian perspective of the value of biodiversity comes in. Being conscious of the

utilitarian value of biodiversity leads to the appreciation of ecosystems. With the appreciation and care of ecosystems natural and beneficial processes such as pollination, seed dispersal, climate regulation, water purification, nutrient cycling, and control of agricultural pests are improved. The utilitarian value of biodiversity could also come in the form of possible unknown services and the possibility of discovering new medicines. Moreover, people also value biodiversity for their cultural, spiritual, and religious value. Biodiversity also holds intrinsic value. In other words, people value biodiversity for its inherent worth regardless of its value to anyone or anything else. The intrinsic value of biodiversity is more of a philosophical concept that can stem from an individual's belief in the right to exist regardless of species. People may also value biodiversity for its relational value. We find value in the intricate relationships we form with nature. These relationships impart a sense of wellbeing, responsibility, and connection. The various ways people value biodiversity are important because this can be leveraged to influence conservation decisions people make every day. How does water pollution affect Biodiversity? **For aquatic environments,**

pollution poses a serious issue as it can cause variations in the environmental conditions to which aquatic organisms are sensitive. Aquatic organisms respond to drastic changes in their environment by migrating to any other suitable habitat or in extreme cases they just die off. In less extreme cases only the

reproductive capacity **and** metabolism of the aquatic organisms are affected negatively. However, **this can have a negative consequence on their population in the long run.** Every species present in various trophic levels is important for freshwater ecosystems. Zooplankton and macrobenthic organisms modulate the aquatic productivity of aquatic ecosystems by occupying the intermediate level in the food chain. The aforementioned aquatic organisms are also capable of indicating changes in the aquatic environment. Recent studies have demonstrated that some species of zooplankton and macrobenthic organisms can be used as an indicator of deteriorating water quality resulting from eutrophication and or pollution. The intricate relationships between species in a food web are important. Fish numbers may start to dip as a result of food chain disruption and diversity loss or degradation. The relationship between biodiversity decline and food chain disruption was demonstrated when data from two separate studies about the Egyptian Nile waters conducted several years apart were compared side by side. In 1907 the first study reported that there are a total of 85 fish species in the Egyptian Nile waters. However, the second study, which was conducted in 1997, reported that there are a total of 71 fish species. This significant reduction in fish species has been attributed to several pollution sources generated by industrial activities, agricultural sources, and sewage drains. These findings showed evidence that pollution can reduce species diversity and affect the fish population. Studies have also shown that pollution can make rivers more susceptible to drastic changes. In one study, researchers investigated the effects of rising water temperature and low oxygen levels brought about by pollution on the common mayfly species. Mayfly species are considered cool water insects and they are used as bioindicators that help determine ecologically important features of freshwater ecosystems. During warmer seasons, they have trouble thriving in polluted waters due to elevated temperatures and reduced dissolved oxygen; conditions that the mayfly species are not accustomed to. In a controlled laboratory setting, mayfly species such as the green drake and blue-winged olive, or Ephemera danica and Serratella ignita respectively, are capable of tolerating higher temperatures where dissolved oxygen levels are sufficient. Lowered oxygen levels, near depletion, can lower the mayflies' ability to tolerate temperature extremes. These laboratory findings were substantiated by field study data. Analysis of data collected by the Environment Agency and Natural Resources Wales demonstrated that mayfly populations dropped when the freshwater oxygen concentration decreased and temperature increased. **So with all the findings of the studies combined, there is strong evidence**

that water pollution can reduce dissolved oxygen in freshwater environments and increase temperature. Moreover, reductions in dissolved oxygen compromised the mayflies' ability to survive temperature extremes. Their ability to increase in numbers was also severely restricted even at temperatures below the lethal limits. Improving dissolved oxygen levels in freshwater environments is one method of improving their resilience against rising temperatures. By reducing the amount of pollution, especially those of agricultural origins, the freshwater environment can absorb oxygen better. This is supported by a review published in Global Change Biology, which mentioned that there is growing evidence that freshwater ecosystems that contain minimal pollution are resilient against changes brought about by climate change. Pollution reduction may also help improve biodiversity in the freshwater ecosystem.

Any biodiversity loss would cause cataclysmic extinction for all species, including humans

University of Exeter 18 (The University of Exeter is a public research university in Exeter, Devon, South West England, United Kingdom, February 29th 2018, "Biodiversity loss raises risk of 'extinction cascades" Science Daily,

<https://www.sciencedaily.com/releases/2018/02/180219155019.htm#:~:text=New%20research%20shows%20that%20the,domino%20effect%20of%20further%20extinctions.&text=%22And%20because%20species%20are%20interconnected.can%20affect%20others%20as%20well.> February 9th 2021)

The researchers, from the University of Exeter, showed there is a higher risk of extinction cascades when other species are not present to fill the "gap" created by the loss of a species. **Even if the loss of one species does not directly cause knock-on extinctions, the study shows that this leads to simpler ecological communities that are at greater risk of "run-away extinction cascades" with the potential loss of many species. With extinction rates at their highest levels ever and numerous species under threat due to human activity, the findings are a further warning about the consequences of eroding biodiversity. "Interactions between species are important for ecosystem (a community of interacting species) stability."** said Dr Dirk Sanders, of the Centre for Ecology and Conservation at the University of Exeter's Penryn Campus in Cornwall. "And because **species are interconnected through multiple interactions, an impact on one species can affect others as well.** "It has been predicted that **more complex food webs will be less vulnerable to extinction cascades because there is a greater chance that other species can step in and buffer against the effects of species loss.**" In our experiment, we used communities of plants and insects to test this prediction." The researchers removed one species of wasp and found that it led to secondary extinctions of other, indirectly linked, species at the same level of the food web. This effect was much stronger in simple communities than for the same species within a more complex food web. Dr Sanders added: **"Our results demonstrate that biodiversity loss can increase the vulnerability of ecosystems to secondary extinctions which, when they occur, can then lead to further simplification causing run-away extinction cascades."** The study, supported by France's Sorbonne Université, is published in the journal Proceedings of the National Academy of Sciences. The paper is entitled: "Trophic redundancy reduces vulnerability to extinction cascades." How extinction cascades work The loss of a predator can initiate a cascade, such as in the case of wolves, where their extinction on one mountain can cause a large rise in the number of deer. This larger number of deer then eats more plant material than they would have before. This reduction in vegetation can cause extinctions in any species that also relies on the plants, but are potentially less competitive, such as rabbits or insects.

Independently, mass Biodiversity loss causes nuclear war. Torres 16

TORRES Institute for Ethics and Emerging Technologies 2016 (Phil, affiliate scholar at the Institute for Ethics and Emerging Technologies, "Biodiversity Loss and the Doomsday Clock: An Invisible Disaster Almost No One Is Talking About", Common Dreams, Feb 10, , [CORNELL DBT] note:/// indicates par.breaks)[AR UMW17] //MA

But there's another global catastrophe that the Bulletin neglected to consider — a catastrophe that will almost certainly have conflict multiplying effects no less than climate change. I'm referring here to biodiversity loss — i.e., the reduction in the total number of species, or in their population sizes, over time. The fact is that in the past few centuries, the loss of biological diversity around the world has accelerated at an incredible pace. Consider the findings of a 2015 paper published in Science Advances. According to this study, we've only recently entered the early stages of the sixth mass extinction event in life's entire 3.5 billion year history. The previous mass extinctions are known as the "Big Five," and the last one wiped out the dinosaurs some 65 million years ago. Unlike these past tragedies, though, the current mass extinction — called the "Holocene extinction event" — is almost entirely the result of a one species in particular, namely Homo sapiens (which ironically means the "wise man").:/// But biodiversity loss isn't limited to species extinctions. As the founder of the Long Now Institute, Stewart Brand, in an article for Aeon, one could argue that a more pressing issue is the reduction in population sizes around the globe. For example, the (GBO-3), published in 2010, found that the total abundance of vertebrates — a category that includes mammals, birds, reptiles, sharks, rays, and amphibians — living in the tropics declined by a whopping 59% between 1970 and 2006. In other words, the population size of creatures with a spine more than halved in only 36 years. The study also found that farmland birds in Europe have declined by 50% since 1980, birds in North America have declined by 40% between 1968 and 2003, and nearly 25% of all plant species are currently "threatened with extinction." The latter statistic is especially worth noting because many people suffer from what's called "," according to which we fail "to recognize the importance of plants in the biosphere and in human affairs." Indeed, plants form the very bottom of the food chains upon which human life ultimately depends.:/// Even more disturbing is the claim that amphibians "face the greatest risk" of extinction, with "42% of all amphibian species ... declining in

population,” as the GBO-3 reports. Consistent with this, from 2013 that focused on North America found that “frogs, toads and salamanders in the United States are disappearing from their habitats ... at an alarming and rapid rate,” and are projected to “disappear from half of the habitats they currently occupy in about 20 years.” The decline of amphibian populations is ominous because amphibians are “ecological indicators” that are more sensitive to environmental changes than other organisms. As such they are the “canaries in the coal mine” that reflect the overall health of the ecosystems in which they reside. When they start to disappear, bigger problems are sure to follow.//// Yet comes from the Living Planet Report — and its results are no less dismal than those of the GBO-3. For example, it finds that the global population of vertebrates between 1970 and 2010 dropped by an unbelievable 52%. **Although the authors refrain from making any predictions based on their data, the reader is welcome to extrapolate this trend into the near future, noting that as ecosystems weaken, the likelihood of further population losses increases.** This study thus concludes that humanity would “need 1.5 Earths to meet the demands we currently make on nature,” meaning that we either need to reduce our collective consumption and adopt less myopic economic policies or hurry up and start colonizing the solar system.//// Other studies have found that , , and are currently threatened with extinction. There’s also talk about the Cavendish banana , and research has confirmed that honey bees, “the most important insect that transfers pollen between flowers and between plants,” are dying out around the world at an alarming rate due to what’s called “colony collapse disorder” — perhaps a good metaphor for our technologically advanced civilization and its self-destructive tendencies.//// Turning to the world’s oceans, one finds few reasons for optimism here as well. Consider the fact that atmospheric carbon dioxide — the byproduct of burning fossil fuels — is not only warming up the oceans, but it’s making them . The resulting changes in ocean chemistry are inducing a process known as “coral bleaching,” whereby coral loses the algae (called “zooxanthellae”) that it needs to survive. Today, . This has direct consequences for humanity “provide us with food, construction materials (limestone) and new medicines,” and in fact “more than half of new cancer drug research is focused on marine organisms.” Similarly, yet found that ocean acidification is becoming so pronounced that the shells of “tiny marine snails that live along North America’s western coast” are literally dissolving in the water, resulting in “pitted textures” that give the shells a “cauliflower” or “sandpaper” appearance.//// Furthermore, human-created pollution that makes its way into the oceans is carving out vast regions in which the amount of dissolved oxygen is too low for marine life to survive. These regions are called “dead zones,” and by Robert Diaz and his colleagues found more than 500 around the world. The biggest dead zone discovered so far is located in the Baltic Sea, and it’s been estimated to be about 27,000 square miles, or a little less than the size of New Hampshire, Vermont, and Maryland combined. Scientists have even discovered an “island” of trash in the middle of the Pacific called the “Great Pacific Garbage Patch” that could be up to “.” Similar “patches” of floating plastic debris can be found in the Atlantic and Indian oceans as well, although these are not quite as impressive. The point is that “Earth’s final frontier” — the oceans — are becoming vast watery graveyards for a huge diversity of marine lifeforms, and in fact in Science predicts that there could be virtually no more wild-caught seafood by 2048.//// Everywhere one looks, the biosphere is wilting — and a single bipedal species with large brains and opposable thumbs is almost entirely responsible for this worsening plight. If humanity continues to prune back the Tree of Life with reckless abandon, we could be forced to confront a global disaster of truly unprecedented proportions. Along these lines, published in Nature and authored by over twenty scientists claims that humanity could be teetering on the brink of a catastrophic, irreversible collapse of the global ecosystem. **According to the paper, there could be “tipping points” — also called “critical thresholds” — lurking in the environment that, once crossed, could initiate radical and sudden changes in the biosphere. Thus, an event of this sort could be preceded by little or no warning: everything might look more or less okay, until the ecosystem is suddenly in ruins.**//// We must, moving forward, never forget that just as we’re minds embodied, so too are we bodies envired, meaning that if the environment implodes under the weight of civilization, then civilization itself is doomed. While the threat of nuclear weapons deserves serious attention from political leaders and academics, as the Bulletin correctly observes, it’s even more imperative that we focus on the broader “contextual problems” that could inflate the overall probability of wars and terrorism in the future. Climate change and biodiversity loss are both conflict multipliers of precisely this sort, and each is a contributing factor that’s exacerbating the other. If we fail to make these threats a top priority in 2016, the likelihood of nuclear weapons — or some other form of emerging technology, including biotechnology and artificial intelligence — being used in the future will only increase.//// Perhaps there’s still time to avert the sixth mass extinction or a sudden collapse of the global ecosystem. But time is running out — the doomsday clock is ticking.

Cross x clare 23 from c1 for great power war causing extinction.

Contention 3 is LAWs

Development of AI requires an insane amount of energy, Ammanath 24'

Beena Ammanath, [Board Member, Centre for Trustworthy Technology], 4-25-2024, "How to manage AI's energy demand — today and in the future," https://www.weforum.org/stories/2024/04/how-to-manage-ais-energy-demand-today-tomorrow-and-in-the-future/?utm_source=chatgpt.com, accessed 3-27-2025 //RR

AI and energy demand Remarkably, the computational **power required for sustaining AI's rise is doubling** roughly **every 100 days**.

To achieve a tenfold improvement in AI model efficiency, the computational **power demand could surge** by up to **10,000 times**. **The energy required to run AI tasks is already accelerating with an annual growth rate between 26% and 36%. This means by 2028, AI could be using more power than the entire country of Iceland used in**

2021. The AI lifecycle impacts the environment in two key stages: the training phase and the inference phase. In the training phase, models learn and develop by

digesting vast amounts of data. Once trained, they step into the inference phase, where they're applied to solve real-world problems. **At present, the environmental footprint is split, with training responsible for about 20% and inference taking up the**

lion's share at 80%. As AI models gain traction across diverse sectors, the need for inference and its environmental footprint will escalate. To align the rapid progress of AI with the imperative of environmental sustainability, a meticulously planned strategy is essential. This encompasses immediate and near-term actions while also laying the groundwork for long-term sustainability. The immediate view: reducing AI's energy demand today Research is emerging about the actionable steps we can take today to align AI progress with sustainability. For example, capping power usage during the training and inference phases of AI models presents a promising avenue for reducing AI energy consumption by 12% to 15%, with a small tradeoff on time to finish tasks with GPUs expected to take around 3% longer.

Current Energy is running out - Halper 24'

Evan Halper [a business reporter for The Washington Post, covering the energy transition. His work focuses on the tensions between energy demands and decarbonizing the economy. He came to The Post from the Los Angeles Times, where he spent two decades, most recently covering domestic policy and presidential politics from its Washington bureau], 2024-03-07, "Amid explosive demand, America is running out of power," Washington Post, <https://www.washingtonpost.com/business/2024/03/07/ai-data-centers-power/>, Date Accessed: 2025-03-21T17:03:46.088Z //RX

Vast swaths of the United States are at risk of running short of power as electricity-hungry data centers and clean-technology factories proliferate around the country, leaving utilities and regulators grasping for credible plans to expand the nation's creaking power grid. In Georgia, demand for industrial power is surging to record highs, with the **projection of new electricity use for the next decade now 17 times what it was** only **recently**. Arizona Public Service, the largest utility in that state, is also

struggling to keep up, projecting it will be out of transmission capacity before the end of the decade absent major upgrades. **Northern Virginia needs the equivalent of several large nuclear power plants to serve all the new data centers planned and under construction.** Texas, where electricity shortages are already routine on hot summer days, faces the same

dilemma. Advertisement The soaring demand is touching off a scramble to try to squeeze more juice out of an **aging power grid** while pushing commercial customers to go to extraordinary lengths to lock down energy sources, such as building their own power plants. "When you look at the numbers, it **is** staggering," said Jason Shaw, chairman of the Georgia Public Service Commission, which regulates electricity. "It

makes you scratch your head and wonder how we ended up in this situation. How were the projections that far off? This has created **a challenge** like we have never seen before." A major factor behind the skyrocketing demand is the **rapid innovation in artificial intelligence, which is driving the construction of large warehouses of computing infrastructure that**

require exponentially more power than traditional data centers. AI is also part of a huge scale-up of cloud computing.

Tech firms like Amazon, Apple, Google, Meta and Microsoft are scouring the nation for sites for new data centers, and many lesser-known firms are also on the hunt. **The proliferation of crypto-mining, in which currencies like bitcoin are transacted and minted, is also driving data center growth.** It is all putting new pressures on an overtaxed grid — the network of transmission lines and power stations that move electricity around the country. Bottlenecks are mounting, leaving both new generators of energy, particularly clean energy, and large consumers facing growing wait times for hookups. The situation is sparking battles across the nation over who will pay for new power supplies, with regulators worrying that residential ratepayers could be stuck with the bill for costly upgrades. It also threatens to stifle the transition to cleaner energy, as utility executives lobby to delay the retirement of fossil fuel plants and bring more online. **The power crunch imperils their ability to supply the energy that will be needed to charge the millions of electric cars** and household appliances required to meet state and federal climate goals. The nation's 2,700 data centers sapped more than 4 percent of the country's total electricity in 2022, according to the International Energy Agency. Its projections show that by 2026, they will consume 6 percent. Industry forecasts show the centers eating up a larger share of U.S. electricity in the years that follow, as demand from residential and smaller commercial facilities stays relatively flat thanks to steadily increasing efficiencies in appliances and heating and cooling systems. Skip to end of carousel Power Grab The artificial intelligence industry is driving a nationwide data center building boom. These sprawling warehouses of computing infrastructure are creating explosive demand for power, water and other resources. Power Grab investigates the impacts on America and the risks AI infrastructure creates for the environment and the energy transition. End of carousel Data center operators are clamoring to hook up to regional electricity grids at the same time the Biden administration's industrial policy is luring companies to build factories in the United States at a pace not seen in decades. That includes manufacturers of "clean tech," such as solar panels and electric car batteries, which are being enticed by lucrative federal incentives. Companies announced plans to build or expand more than 155 factories in this country during the first half of the Biden administration, according to the Electric Power Research Institute, a research and development organization. Not since the early 1990s has factory-building accounted for such a large share of U.S. construction spending, according to the group. Utility projections for the amount of power they will need over the next five years have nearly doubled and are expected to grow, according to a review of regulatory filings by the research firm Grid Strategies. Chasing power In the past, companies tried to site their data centers in areas with major internet infrastructure, a large pool of tech talent, and attractive government incentives. But these locations are getting tapped out. Communities that had little connection to the computing industry now find themselves in the middle of a land rush, with data center developers flooding their markets with requests for grid hookups. Officials in Columbus, Ohio; Altoona, Iowa; and Fort Wayne, Ind. are being aggressively courted by data center developers. **But power supply in some of these second-choice markets is already running low,** pushing developers ever farther out, in some cases into cornfields, according to JLL, a commercial real estate firm that serves the tech industry. Grid Strategies warns in its report that "there are real risks some regions may miss out on economic development opportunities because the grid can't keep up." "Across the board, we are seeing power companies say, 'We don't know if we can handle this; we have to audit our system; we've never dealt with this kind of influx before,'" said Andy Cvengros, managing director of data center markets at JLL. "Everyone is now chasing power. They are willing to look everywhere for it." "We saw a quadrupling of land values in some parts of Columbus, and a tripling in areas of Chicago," he said. "It's not about the land. It is about access to power." Some developers, he said, have had to sell the property they bought at inflated prices at a loss, after utilities became overwhelmed by the rush for grid hookups. Rethinking incentives It is all happening at the same time the energy transition is steering large numbers of Americans to rely on the power grid to fuel vehicles, heat pumps, induction stoves and all manner of other household appliances that previously ran on fossil fuels. A huge amount of clean energy is also needed to create the green hydrogen championed by the White House, as developers rush to build plants that can produce the powerful zero-emissions fuel, lured by generous federal subsidies. **Planners are increasingly concerned that the grid won't be green enough or powerful enough to meet these demands.** Already, soaring power consumption is delaying coal plant closures in Kansas, Nebraska, Wisconsin and South Carolina. In Georgia, the state's major power company, Georgia Power, stunned regulators when it revealed recently how wildly off its projections were, pointing to data centers as the main culprit. The demand has Georgia officials rethinking the state's policy of offering incentives to lure **computing operations,** which generate few jobs but can **boost community budgets through the hefty property taxes they pay.** The top leaders of Georgia's House and Senate, both Republicans, are championing a pause in data center incentives. Georgia regulators, meanwhile, are exploring how to protect ratepayers while ensuring there is enough power to meet the needs of the state's most-prized new tenants: clean-technology companies. Factories supplying the electric vehicle and green-energy markets have been rushing to locate in Georgia in large part on promises of cheap, reliable electricity. When the data center industry began looking for new hubs, "Atlanta was like, 'Bring it on,'" said Pat Lynch, who leads the Data Center Solutions team at real estate giant CBRE. **"Now Georgia Power is warning of limitations. ... Utility shortages in the face of these data center demands are happening in almost every market." A similar dynamic is playing out in a very different region: the Pacific Northwest. In Oregon, Portland General Electric recently doubled its forecast for new electricity demand over the next five years, citing data centers and "rapid industrial growth" as the drivers.** That power crunch threw a wrench into the plans of Michael

Halaburda and Arman Khalili, longtime data center developers whose latest project involves converting a mothballed tile factory in the Portland area. The two were under the impression only a couple of months ago that they would have no problem getting the electricity they needed to run the place. Then the power company alerted them that it would need to do a “line and load study” to assess whether it could supply the facility with 60 megawatts of electricity — roughly the amount needed to power 45,000 homes.

NPPs solves the energy shortage, Kramer 24’

Anna Kramer, 8-27-2024, "Nuclear Power Could Solve a U.S. Energy Crisis, If States Can Figure Out How to Pay for It," NOTUS, <https://www.notus.org/policy/nuclear-power-energy-crisis-cost>, accessed 3-27-2025 //RR

There’s an obvious solution to the compounding energy problems in the United States, but even overwhelming bipartisan excitement can’t overcome one critical obstacle: States say it’s just too expensive. Nuclear power is a source of nearly unlimited, carbon-free, dependable energy that could significantly alleviate the stress on the United States’ electrical grid and any subsequent spikes in electricity prices. This year, Congress passed nuclear reform with near unanimity, with only two senators and 13 House members in opposition. Yet state public utility commissioners are warning that without even more significant federal investment, **new nuclear plants are simply out of reach — or run the risk of seriously increasing consumers’ costs.** “I’m urging commissioner colleagues from around the country to use great caution when considering nuclear,” Tim Echols, one of Georgia’s public service commissioners, said. Echols is an unlikely naysayer; he’s a fan of nuclear power who helped ensure that the first new plant in the country in more than 20 years made it over the finish line in Georgia in 2023. Plant Vogtle will bring stable, dependable, nearly unlimited power to the state. **Still, Georgians will have to pay significantly more for electricity because the project went billions of dollars over budget.** “They are all somewhat aware of Vogtle’s issues here in Georgia, and I want them to be successful in their efforts,” Echols said. Echols and fellow state commissioner Nick Myers in Arizona have been arguing in private meetings and in editorials for the energy community that the Department of Energy and Congress should embrace the idea of a federal backstop to cover the cost overruns for future new nuclear plants. **Echols wants the government to allocate \$50 billion of IRA funding for five reactors instead of passing the prices along in the electricity bills of the communities served by the nuclear plant. “Regulators don’t want to pass the costs on to the ratepayers,” Myers said.**

Degrading U.S. AI is key— US is working towards LAWs Bartlett 19’

Matt Bartlett, 1-28-2019, "The AI Arms Race In 2019," Medium,

<https://towardsdatascience.com/the-ai-arms-race-in-2019-fdca0a086a>, accessed 10-19-2022//EE6.6.

The Pentagon has committed to a \$9 billion spend on American military AI, explicitly citing the need to keep up with Russian and Chinese military technology. While the American budget for AI represents just a fraction of overall defence spending, much like in Russia, **the figure has doubled in recent years. Unique among the global powers, the US has already started deploying autonomous vehicles in turbulent combat areas, in large numbers and with significant roles.** **Autonomous naval vehicles have begun to patrol the South China Sea — with larger, more powerful machines on their way. Most striking of all, American aerial drones have rained death all over Afghanistan and Pakistan under the Obama administration. It is absolutely clear why the United States have opposed all moves towards a prohibition of autonomous weapons: America wants to win the arms race, not stop it.** For its part, China has actually indicated its support in April last year for a **ban on battlefield use of autonomous weapons.**

Independently, a Warren ‘18 writes

Aiden Warren, 9-1-2018, "LETHAL AUTONOMOUS ROBOTICS: RETHINKING THE DEHUMANIZATION OF WARFARE" UCLA Journal of International Law and Foreign Affairs,

https://www.jstor.org/stable/pdf/45302406.pdf?refreqid=excelsior%3A9e5f8f9749bdfe02d9ef24a5c1f3f763&ab_segments=&origin=, accessed 10-19-2022//EE6.6.

For example, Garcia asserts that the large influence wielded by the US makes it "the only country in a strong enough position to take the lead to stop a technology that will mean the loss of humanity in decisions of war and peace. . . . The US is at a privileged pivotal moment where it has the edge in the development of a technology that is not yet operational. Practically, rapid proliferation will put the US at risk just as much as everyone else."

The impact is terrorism

Ware '19 writes that

Jacob Ware, 9-24-2019, "Terrorist Groups, Artificial Intelligence, and Killer Drones," War on the Rocks, <https://warontherocks.com/2019/09/terrorist-groups-artificial-intelligence-and-killer-drones/>, accessed: 3-29-2023 //ZD

The current framework controlling high-tech weapons proliferation — the Wassenaar Arrangement and Missile Technology Control Regime — is voluntary, and is constantly tested by great-power weapons development. Given interest in developing AI-guided weapons, this seems unlikely to change. Ultimately, as AI expert Toby Walsh notes, the world's weapons companies can, and will, "make a killing (pun very much intended) selling autonomous weapons to all sides of every conflict." Finally, **autonomous weapons technology is likely to leak.**

Innovation in the AI field is led by the private sector, not the military, because of the myriad commercial applications of the technology. **This will make it more difficult to contain the technology, and prevent it from proliferating to nonstate actors.** Perhaps the starkest warning has been issued by Paul Scharre, a former U.S. defense official: **"We are entering a world where the technology to build lethal autonomous weapons is available not only to nation-states but to individuals as well."** That world is not in the distant future. It's already here." Counter-Terrorism Options Drones and AI provide a particularly daunting counter-terrorism challenge, simply because effective counter-drone or anti-AI expertise does not yet exist. That said, as Daveed Gartenstein-Ross has noted, "in recent years, we have seen multiple failures in imagination as analysts tried to discern what terrorists will do with emerging technologies.

LAWs increase the incentive to attack— Ware continues that

Jacob Ware, 9-24-2019, "Terrorist Groups, Artificial Intelligence, and Killer Drones," War on the Rocks, <https://warontherocks.com/2019/09/terrorist-groups-artificial-intelligence-and-killer-drones/>, accessed: 3-29-2023 //ZD

Firstly, killer robots are likely to be extremely cheap, while still maintaining lethality. Experts agree that **lethal autonomous weapons, once fully developed, will provide a cost-effective alternative to terrorist groups looking to maximize damage,** with Tegmark arguing that **"small AI-powered killer drones are likely to cost little more than a smartphone."** Additionally, killer robots will minimize the human investment required for terrorist attacks, with scholars arguing that "greater degrees of autonomy enable a greater amount of damage to be done by a single person." Artificial intelligence could make terrorist activity cheaper financially and in terms of human capital, lowering the organizational costs required to commit attacks. Secondly, **using autonomous weapons will reduce the trace left by terrorists.** A large number of munitions could be launched — and a large amount of damage done — by a small number of people operating at considerable distance from the target, reducing the signature left behind. In Tegmark's words, for "a terrorist wanting to assassinate a politician ... all they need to do is upload their target's photo and address into the killer robot: it can then fly to the destination, identify and eliminate the person, and self-destruct to ensure nobody knows who was responsible." With autonomous weapons tech=nology, **terrorist groups will be able to launch increasingly complex attacks and, when they want to, escape without detection.** Finally, **killer**

robots could reduce, if not eliminate the physical costs and dangers of terrorism, rendering the operative “essentially invulnerable.” Raising the possibility of “fly and forget” missions, lethal autonomous weapons might simply be deployed toward a target, and engage that target without further human intervention. As P. W. Singer noted in 2012, “one [will] not have to be suicidal to carry out attacks that previously might have required one to be so.” This allows new players into the game, making al-Qaeda 2.0 and the next-generation version of the Unabomber or Timothy McVeigh far more lethal.” Additionally, lethal autonomous weapons could potentially reduce human aversion to killing, making terrorism even more palatable as a tactic for political groups. According to the aforementioned February 2018 report, “AI systems can allow the actors who would otherwise be performing the tasks to retain their anonymity and experience a greater degree of psychological distance from the people they impact”; this would not only improve a terrorist’s chances of escape, as mentioned, but reduce or even eliminate the moral or psychological barriers to murder.

That causes extinction. Klare 23’

Michael T. Klare, 2023, "AI vs. AI: Flash Wars and Human Extinction," Peace & Planet News, <https://peaceandplanetnews.org/ai-vs-ai-flash-wars-and-human-extinction/amp/>, accessed 4-4-2025 //MA

Despite all the secrecy surrounding these projects, you can think of ABMS, JADC2, Convergence, and Overmatch as building blocks for a future Skynet-like mega-network of super-computers designed to command all U.S. forces, including its nuclear ones, in armed combat. The more the Pentagon moves in that direction, the closer we’ll come to a time when AI possesses life-or-death power over all American soldiers along with opposing forces and any civilians caught in the crossfire. Such a prospect should be ample cause for concern. To start with, consider the risk of errors and miscalculations by the algorithms at the heart of such systems. As top computer scientists have warned us, those algorithms are capable of remarkably inexplicable mistakes and, to use the AI term of the moment, “hallucinations” — that is, seemingly reasonable results that are entirely illusionary. Under the circumstances, it’s not hard to imagine such computers “hallucinating” an imminent enemy attack and launching a war that might otherwise have been avoided. And that’s not the worst of the dangers to consider. After all, there’s the obvious likelihood that America’s adversaries will similarly equip their forces with robot generals. In other words, future wars are likely to be fought by one set of AI systems against another, both linked to nuclear weaponry, with entirely unpredictable — but potentially catastrophic — results. Not much is known (from public sources at least) about Russian and Chinese efforts to automate their military command-and-control systems, but both countries are thought to be developing networks comparable to the Pentagon’s JADC2. As early as 2014, in fact, Russia inaugurated a National Defense Control Center (NDCC) in Moscow, a centralized command post for assessing global threats and initiating whatever military action is deemed necessary, whether of a non-nuclear or nuclear nature. Like JADC2, the NDCC is designed to collect information on enemy moves from multiple sources and provide senior officers with guidance on possible responses. China is said to be pursuing an even more elaborate, if similar, enterprise under the rubric of “Multi-Domain Precision Warfare” (MDPW). According to the Pentagon’s 2022 report on Chinese military developments, its military, the People’s Liberation Army, is being trained and equipped to use AI-enabled sensors and computer networks to “rapidly identify key vulnerabilities in the U.S. operational system and then combine joint forces across domains to launch precision strikes against those vulnerabilities.” Picture, then, a future war between the U.S. and Russia or China (or both) in which the JADC2 commands all U.S. forces, while Russia’s NDCC and China’s MDPW command those countries’ forces. Consider, as well, that all three systems are likely to experience errors and hallucinations. How safe will humans be when robot generals decide that it’s time to “win” the war by nuking their enemies? If this strikes you as an outlandish scenario, think again, at least according to the leadership of the National Security Commission on Artificial Intelligence, a congressionally mandated enterprise that was chaired by Eric Schmidt, former head of Google, and Robert Work, former deputy secretary of defense. “While the Commission believes that properly designed, tested, and utilized AI-enabled and autonomous weapon systems will bring substantial military and even humanitarian benefit, the unchecked global use of such systems potentially risks unintended conflict escalation and crisis instability,” it affirmed in its Final Report. Such dangers could arise, it stated, “because of challenging and untested complexities of interaction between AI-enabled and autonomous weapon systems on the battlefield” — when, that is, AI fights AI. Though this may seem an extreme scenario, it’s entirely possible that opposing AI systems could trigger a catastrophic “flash war” — the military equivalent of a “flash crash” on Wall Street, when huge transactions by super-sophisticated trading algorithms spark panic selling before human operators can restore order. In the infamous “Flash Crash” of May 6, 2010, computer-driven trading precipitated a 10% fall in the stock market’s

value. According to Paul Scharre of the Center for a New American Security, who first studied the phenomenon, “the military equivalent of such crises” on Wall Street would arise when the automated command systems of opposing forces “become trapped in a cascade of escalating engagements.” In such a situation, he noted, “autonomous weapons could lead to accidental death and destruction at catastrophic scales in an instant.” At present, there are virtually **no measures in place to prevent a future catastrophe of this sort or even talks among the major powers to devise such measures.** Yet, as the National Security Commission on Artificial Intelligence noted, such crisis-control measures are urgently needed to integrate “automated escalation tripwires” into such systems “that would prevent the automated escalation of conflict.” Otherwise, some catastrophic version of World War III seems all too possible. Given the dangerous immaturity of such technology and the reluctance of Beijing, Moscow, and Washington to impose any restraints on the weaponization of AI, the day when machines could choose to annihilate us might arrive far sooner than we imagine **and the extinction of humanity** could be the collateral damage of such a future war.

C4 Saudi Prolif

Despite the Saudis efforts, they lack access to nuclear energy, Mecklin 23’

John Mecklin, 8-28-2023, “There should be no Saudi uranium enrichment,” Bulletin of the Atomic Scientists, <https://thebulletin.org/2023/08/there-should-be-no-saudi-uranium-enrichment/>, accessed 4-1-2025 //RR

The crown prince hasn’t been shy about revealing how he may use a civilian nuclear power project. In a 2018 CBS News interview he said, “Saudi Arabia does not want to acquire any nuclear bomb, but without a doubt if Iran developed a nuclear bomb, we will follow suit as soon as possible.” Will he wait for that development? He made no mention of working through the international system to prevent an Iranian bomb. He **wants a nuclear power program on a hair trigger, ready to convert quickly to a nuclear weapon program.** **That isn’t of course the polite version of the crown prince’s plan. He says he wants to use domestic uranium, of which the Saudis claimed to have large deposits, to fuel civilian nuclear power reactors.** He wants to produce fuel domestically, ergo he **needs to acquire enrichment technology.** But **despite Saudi claims, there are no significant uranium deposits in the country. Recent reports reveal that the teams of geologists sent to search for it have turned up empty-handed. That hasn’t, however, caused the crown prince to lose interest in enrichment, which is itself a revealing fact about his intentions—and his reliance on American cupidity. To cope with what the Saudis regard as excessive suspicion of others, they have suggested they are open to accepting some modest additional oversight arrangements, which they cynically expect Congress to accept after members engage in some ritual handwringing.** RELATED: What a second Trump administration may mean for the Saudi nuclear program You would think the Saudi insistence on inclusion of enrichment, no matter how restricted, would be a non-starter for a US-Saudi “123” agreement for nuclear cooperation. (Compliance with Section 123 of the Atomic Energy Act is essential for any significant US-Saudi nuclear trade.) But such common sense is a thin reed to lean on when it comes to Washington nuclear politics. Powerful lobbies have been pushing for years for sale of power reactors in the Middle East and for generous subsidies to allow this to happen. The departments of Energy and State will be supporting this, too, claiming that international “safeguards” would be effective in preventing misuse of civilian nuclear facilities. The official line on nuclear energy is still Atoms for Peace, as it has been since President Eisenhower’s 1953 speech. Recall that George W. Bush said even Iranian power reactors, by themselves, were perfectly legitimate. The problem is that hardly anyone in Congress has any real understanding of nuclear technology. The members are swept off their feet by promises of safe, non-carbon producing energy sources, especially when nuclear proponents use adjectives like “small” and “modular” and “advanced.” Congressional discussions on international aspects seldom get beyond “restoring America’s competitive advantage in nuclear energy.”

Aff causes nuclearization – the US would actively sell SMRs to nuclear-seeking states.

Green, '19 – Jim Green is an anti-nuclear campaigner with Friends of the Earth Australia. Green is a regular media commentator on nuclear issues. He has an honours degree in public health from the University of Wollongong and was awarded a PhD in science and technology studies for his analysis of the Lucas Heights research reactor debates. (Jim Green; "Small modular reactors and nuclear weapons proliferation"; Wise International; <https://wiseinternational.org/nuclear-monitor/872-873/small-modular-reactors-and-nuclear-weapons-proliferation>; 07-03-2019, Accessed 10-22-2021)///ILake-NoC

Small power reactors have been used to produce fissile material for weapons. Examples include: Magnox reactors in the UK which were used to generate power and to produce plutonium for weapons.¹¹ North Korea has tested weapons using plutonium produced in its 'Experimental Power Reactor' – a Magnox clone.¹² India refuses to place numerous power reactors (including some of its small PHWR reactors) under safeguards¹³ and presumably uses (or plans to use) them for weapons production. Based on historical experience, there's every reason to be concerned about the weapons proliferation risks associated with a proliferation of SMRs. It can be anticipated that countries with an interest in developing weapons – or a latent weapons capability – will be more interested in acquiring SMRs than countries with no such interest ("nations that lack a need for weapons latency often decide not to build nuclear power plants", Shellenberger states¹⁴). Saudi Arabia's interest in acquiring a South Korean-designed SMART SMR may be a topical case study, and South Korea may have found a model to unlock the potential of SMRs: collaboration with a repressive Middle Eastern state that has a clear interest in developing a nuclear weapons capability, with extensive technology transfer thrown in.¹⁵ A subsidiary of Holtec International has actively sought a military role, inviting the National Nuclear Security Administration to consider the feasibility of using a proposed SMR to produce tritium, used to boost the explosive yield of the US nuclear weapons arsenal.¹⁶ NuScale Power, on the other hand, claims to be taking the high moral ground. NuScale's chief commercial officer said in 2013 that the company is not in business to sell reactors to politically unstable countries.¹⁷ Yet in early 2019, NuScale participated in a White House meeting which discussed, among other issues, the possibility of selling nuclear power technology to Saudi Arabia – a known nuclear weapons wannabe in a volatile region.¹⁸

The intrinsic features of SMR enhance the risk of proliferation – AND investment provides cover for reckless nuclear weapons production.

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By far the most important point to make is that any configuration of any SMR design will pose proliferation risks. As the UK Royal Society notes: "There is no proliferation proof nuclear fuel cycle. The dual use risk of nuclear materials and technology and in civil and military applications cannot be eliminated."²⁸ Ramana and Mian

state in a 2014 article:²⁹ "Proliferation risk ... depends on both technical and non-technical factors. While the non-technical factors are largely not dependent on choice of reactor type, **SMRs and their intrinsic features do affect the technical component of proliferation risk. In the case of both iPWRs [integral Pressurized Water Reactors] and fast reactors, the proliferation risk is enhanced relative to current generation light water reactors primarily because greater quantities of plutonium are produced per unit of electricity** generated. In the case of HTRs [high temperature gas-cooled reactors], proliferation risk is increased because of the use of fuel with higher levels of uranium enrichment, but is diminished because the spent fuel is in a form that is difficult to reprocess." Glaser, Hopkins and Ramana compare the proliferation risks of standard light-water reactors, proposed integral pressurized water **SMRs** (iPWRs) and proposed SMRs with long-lived cores (LLCs) that would not require refueling for two or more decades (typically fast-spectrum designs cooled by helium, sodium, or other liquid metals such as lead and lead-bismuth eutectics).³⁰ The authors state:³⁰ "iPWRs **are likely to have higher requirements for uranium ore and enrichment services compared to gigawatt-scale reactors. This is because of the lower burnup of fuel in iPWRs, which is difficult to avoid because of smaller core size and all-in-all-out core management. These characteristics also translate into an increased proliferation risk unless they are offset by technical innovations in reactor and safeguards design and institutional innovations in the nuclear fuel cycle. "Uranium and uranium enrichment requirements are reduced for fast-spectrum SMRs with LLCs, but in this case strong incentives for spent-fuel reprocessing are likely to result from the high fissile content of the spent fuel.** This same characteristic also increases the probability of proliferation success in a diversion scenario ..." A report by the UK Parliamentary Office of Science & Technology offers these generalizations:³¹ "There is uncertainty over the extent to which widespread SMR use might increase or decrease non-proliferation risk. Some SMRs require less frequent refuelling than conventional nuclear, reducing high risk periods. However, more integrated designs may be more challenging to inspect, and some designs use more highly enriched uranium than conventional nuclear. Both of these aspects could increase proliferation risk." Uranium enrichment Ramana and Mian note that attempts to reduce one proliferation risk can worsen another:²⁹ "Proliferation resistance is another characteristic that imposes sometimes contradictory requirements. One way to lower the risk of diversion of fuel from nuclear reactors is to minimize the frequency of refueling because these are the periods when the fuel is out of the reactor and most vulnerable to diversion, and so many SMR designers seek longer periods between refueling. However, in order for the reactor to maintain reactivity for the longer period between refuelings, it would require starting with fresh fuel with higher uranium enrichment or mixing in plutonium. "Some designs even call for going to an enrichment level beyond 20 percent uranium-235, the threshold used by the International Atomic Energy for classifying material as being of "direct use" for making a weapon. All else being equal, the use of fuel with higher levels of uranium enrichment or plutonium would be a greater proliferation risk, and is the reason why so much international attention has been given to highly enriched uranium fueled research reactors and converting them to low enriched uranium fuel or shutting them down. "Moreover, **an SMR design relying on highly enriched uranium fuel creates new proliferation risks – the need for production of fresh highly enriched uranium and the possibility of diversion at the enrichment plant and during transport. Any reduction of proliferation risk at the reactor site by reducing refueling frequency, it turns out, may be accompanied by an increase in the proliferation risk elsewhere.**" In January 2019, the US government allocated US\$115 million to kick-start a domestic uranium enrichment project in Piketown, Ohio.³² The HALEU Demonstration Program will aim to produce 19.75%-enriched 'high assay low enriched uranium' (HALEU) using US-designed and operated centrifuge technology.³³ The project is being sold as a step towards domestic production of enriched uranium for 'advanced reactors' (including SMRs) **but there is also a military agenda.** Republican Senator Rob Portman said: "Getting Piketon back to its full potential benefits the skilled workforce here, the surrounding local economy, and strengthens national energy and defense security."³² The Department of Energy said that Centrus subsidiary American Centrifuge Operating was the only firm that qualified for the project, noting that the company is US-owned and controlled, a requirement for enrichment contracts to supply the military.³² **Nationalistic military hawks have been lobbying furiously (and evidently successfully) to re-establish domestic uranium enrichment in the US to accommodate the Navy's long-term 'need' for additional highly enriched uranium to fuel its reactors for long intervals between refueling, and the 'need' for a domestic source of low enriched uranium to fuel reactors used to produce tritium for weapons.**³⁴ It might be the case that very few if any SMRs are ever built in the US, yet the promise of an **SMR** industry is already **providing cover for military projects.**

Civil nuclear energy production is covertly used for nuclear weapons.

Mark Diesendorf, '16 – (Mark Diesendorf; "Renewable energy versus nuclear: dispelling the myths"; Energy Post; <https://energypost.eu/renewable-energy-versus-nuclear-dispelling-myths/>; 5-31-2016, Accessed 11-2-2021)//ILake-NoC

Myth 4: Nuclear weapons proliferation is independent of civil nuclear energy. Variant: Nuclear weapons explosives cannot be made from the type of plutonium produced in conventional nuclear power reactors, or from the thorium fuel cycle, or from the IFR. Six countries (France, India, North Korea, Pakistan, South Africa and the UK) have covertly used civil nuclear energy to assist them to develop nuclear weapons. In addition, at least seven countries (Argentina, Australia, Brazil, Iran, Libya, South Korea and Taiwan) have used civil nuclear energy to commence covertly developing nuclear weapons, but then terminated their programs (references in Diesendorf 2014). Thus nuclear energy is facilitating proliferation and therefore is increasing the probability of nuclear war. Even if the probability of nuclear war is small (and this is debatable), the potential impacts are huge. Therefore it is inappropriate to ignore the proliferation risk, which is probability multiplied by potential impact. Thorium reactors are under development in India. Thorium is not fissile, so it first has to be bombarded with neutrons to convert it into uranium-233, which is. Like any fissile element, U-233 can be used either to generate heat and hence electricity, or as a nuclear explosive. Nuclear weapons with U-233 as part of the explosive have been tested by the USA (Teapot MET test), Soviet Union and India. Some nuclear proponents claim incorrectly that the hypothetical IFR would be proliferation-proof. The IFR has only ever operated as a single prototype in the USA. The project was cancelled by Congress in 1994 for reasons including funding, doubts about whether it was needed, and concerns about its potential for proliferation (Kerry 1994). The IFR offers at least two proliferation pathways. Once it has separated most of the highly radioactive fission products from the less radioactive transuranics by means of an experimental process known as pyroprocessing, it would be easier to extract the plutonium-239 from the transuranics by means of conventional chemical reprocessing and use it to produce nuclear weapons. An alternative proliferation pathway would be to modify an IFR to enable it to be used as a breeder reactor to produce weapons grade plutonium from uranium-238 – see also Wymer et al. (1992).

Iran would respond immediately to any development of a Saudi nuclear program. Matamis 24'

Joaquin Matamis, 1-31-2024, "Will Iran Get the Bomb in 2024? • Stimson Center," Stimson Center, <https://www.stimson.org/2024/will-iran-get-the-bomb-in-2024/>, accessed 4-4-2025 //RX //MA Brackets in OG

Together, these three pillars form the core of Iran's deterrence strategy, and any significant weakening in their effectiveness could alter Tehran's nuclear calculations. Several developments could persuade Iran to abandon its current nuclear posture and weaponize its nuclear program. First, a major shift in the regional balance of power could convince the Iranian leadership that crossing the nuclear threshold is necessary. This would include the acquisition of nuclear weapons by Iran's regional adversaries, notably Saudi Arabia. The former secretary of Iran's Supreme National Security Council (SNSC) Ali Shamkhani, warned in 2019 that since certain regional countries have started "suspicious" nuclear programs that pose a threat to the "entire region and the world," Iran may "undoubtedly be

compelled to recalibrate [its] strategies based on the nature and geography of new threats, and address the requirements of [its] armed forces in response to this threat."

And, Iran could develop nucs within a week. Peters 24'

Robert Peters, 10-1-2024, "Iran Is Inching Toward a Nuclear Weapons Breakout: What Does This Mean for the United States?," Heritage Foundation,
<https://www.heritage.org/middle-east/report/iran-inching-toward-nuclear-weapons-breakout-what-does-s-mean-the-united-states>, accessed 4-4-2025 //MA brackets in og

Iran can produce nuclear weapons far more rapidly than expected. In late April 2024, a senior Iranian lawmaker stated that there is only a "one-week gap from the issuance of the order to the first test" of a nuclear bomb.¹* In July, U.S. Secretary of State Antony Blinken appeared to corroborate this statement in part when he announced that **"instead of being at least a year away from having the breakout capacity of producing fissile material for a nuclear weapon, [Iran] is now probably one or two weeks away."**² An August 2024 International Atomic Energy Agency (IAEA) report all but confirms these statements. As of August 17, **Iran had 363.1 pounds of uranium enriched up to 60 percent-an increase** of 49.8 pounds since the U.N. agency's May 2024 report. ³ Uranium that is "enriched up to 60% purity is just a short, technical step away from weapons-grade levels of 90%." ⁴ Higher levels of enriched uranium have already been detected by IAEA inspectors. In February 2023, it was reported that "[i]nspectors from the [IAEA had] found uranium particles enriched up to 83.7% in Iran's underground Fordow nuclear site." ⁵ **This finding confirms that Iran is closer than ever to reaching the 90 percent that it needs to produce a nuclear weapon.**

Saudi-Iran war draws in great powers. Lantier 19'

Alex Lantier 19, PhD @ Geneva, Freelance Journalist that reports on Middle Eastern foreign affairs;
"Syrian army, Iran threaten counterattack against Turkish invasion of Syria"; World Socialist Web Site;
10-14-2019; <https://www.wsws.org/en/articles/2019/10/14/syri-o14.html//AES>

After three decades of US-led wars, the outbreak of a third world war, which would be fought with nuclear weapons, is an imminent and concrete danger. At the same time, **military tensions between Iran and Saudi Arabia** are surging amid mutual attacks on tankers carrying Persian Gulf oil supplies that are critical to the world economy. Last month, the US and Saudi governments blamed a September 14 missile attack on Saudi oil facilities that caused a sharp rise in world oil prices on Iran, without providing any evidence. Then on October 11, two missiles hit the Iranian tanker Sabiti off Saudi Arabia's Red Sea coast. Ali Shamkhani, the secretary of the Iranian Supreme National Security Council, said yesterday that Iran would retaliate against unnamed targets for the attack on the Sabiti. "A special committee has been set up to investigate the attack on Sabiti... Its report will soon be submitted to the authorities for decision," Shamkhani told Fars News. "Piracy and mischief on international waterways aimed at making commercial shipping insecure will not go unanswered." Saudi officials declined to comment on the Sabiti attack, and officials with the US Fifth Fleet in the Gulf sheikdom of Bahrain claimed to have no information on it. But there is widespread speculation in the international media that the attack was carried out by Saudi Arabia or with its support. **The conflicts erupting between the different capitalist regimes in the Middle East pose an imminent threat not only to the population of the region, but to the entire world.** Workers can give no support to any of the competing military plans and strategic appetites of these reactionary regimes. **With America, Europe, Russia and China all deeply involved** in the proxy war in Syria, a **large-scale Middle East war could strangle the world oil supply and escalate into war between nuclear-armed powers.** The working class is coming face to face with the real possibility of a Third World War. The Kurdish-led SDF militias in Syria, vastly outgunned by Turkish forces and vulnerable to air strikes, warned US officials in talks leaked by CNN that they would appeal for Russia to attack Turkey and protect SDF and Syrian army forces. As Turkey is legally a NATO ally of Washington and the European powers, such an attack could compel the United States and its European allies to either break the 70-year-old NATO alliance or go to war with Russia to protect Turkey.

Cross x clare 23 for great power war causing extinction

2AC

Framing

1. The ROB and ROTJ is comparing worlds -- vote for the debater who proves the desirability or undesirability of the aff and its policy action- only evaluating the consequences of the plan allows us to determine the practical impacts of politics and preserves the predictability that fosters engagement
2. Vote negative on presumption:
 - a. They've provided no explanation of how much their advocacy is enough to solve
 - b. Resisting the living wage topic doesn't do anything material and instead trades off with actual movements to improves wages. It recreates the ivory tower da and catharsis da where the self-satisfaction and retreat to a moral high ground trumps change.
 - c. Empirics show how debate doesn't change anything – people have been reading affs for years but there's been no material change.
 - d. Either they defend the USFG in which case they can't solve because the 1AC states the government creates laws than marginalize disabled people. Or they don't and violate t.

Non-USFG affs don't get perms or theory— first and last speech and lack of a stable, topical advocacy prevent any basis for perm texts, which makes negative engagement impossible and incentivizes 1AR shiftiness – kills fairness and clash.

Th > K

- 1) Theory is still the highest layer of the debate b/c the K is still part of the substance of the debate but theory forms how we are to operate when we discuss arguments. The K is an argument, theory shapes the rules for engaging the arg. We don't go into rounds without a set of rules and norms to help adjudicate the process of the debate. This answers why it comes before the ROTB because the ROTB has to constrain UNDER THEORY
- 2) Theory that shapes good norms helps for better K debates – For example, disclosure theory ensures that future debaters can learn more about the framing of their argument, learn more about critical literature, and
- 3) Chilling effect on theory – people will just read K arguments later in the round to force a kick out of theory abuses, it becomes infinitely impossible to check back abuses b/c we'll always just prioritize an argument just because it's a K and not care about cheating or ethics of the round. That means really good norms like disclosure and not paraphrasing go away in favor of blipper less evidence ethics debates as well as (insert our shell).
- 4) They should've read reasons why the K is uniquely different than other debate arguments that make up substance in order to prove that the K should come before theory

On this fairness warrant, it's a prereq to have procedural fairness meaning evaluating this round independently of other rounds—

We'll bite that you have to answer in the next constructive speech, this probably means that we don't have to answer at all and you presume for us because that means they have no offense

1NC---OFF

T-Framework.

Interpretation: Debaters on the affirmative must defend a topical plan that defends a policy action.

‘United States’ means the federal government, not private entities.

Ikuta ’10 [Sandra; December 8; Circuit Judge for the United States Court of Appeals in the Ninth Circuit; Ninth Circuit, “Transwestern Pipeline Company, LLC v. 3.42 acres of permanent easement located in Maricopa County et al,” Lexis] recut //RX

We disagree with the last step of Agua Fria's analysis. When determining statutory meaning, we look first to the plain meaning of the text. Paul Revere Ins. Grp. v. United States, 500 F.3d 957, 962 (9th Cir. 2007). "[U]nless otherwise defined, words will be interpreted as taking their ordinary, contemporary, common meaning." Perrin v. United States, 444 U.S. 37, 42, 100 S. Ct. 311, 62 L. Ed. 2d 199 (1979). "When determining the plain meaning of language, we may consult dictionary definitions." Af-Cap Inc. v. Chevron Overseas (Congo) Ltd., 475 F.3d 1080, 1088 (9th Cir. 2007). Taking its ordinary, common meaning, the term "United States" means our nation, located primarily in North America, which acts through our federal form of government. The dictionary definitions are consistent with this common understanding. See, e.g., 19 Oxford English Dictionary 79-80 (J.A. Simpson & E.S.C. Weiner eds., 2d ed. 1989) (definition 1b: "The Republic of North America"); Black's Law Dictionary 1675 (9th ed. 2009) ("A federal republic . . . made up of 48 coterminous states, plus the state of Alaska and the District of Columbia in North America, plus the state of Hawaii in the Pacific."). 3

The Act does not define the term "United States" and does not indicate that we are to read the special definition of "Federal agency" from § 4601(1) into the term "United States." Accordingly, we decline to do so, and adhere instead to the common understanding of the term "United States." Given our interpretation of the term, the landowner's right to costs and fees is triggered only when the federal government abandons a condemnation proceeding, not when a private entity such as Transwestern does so, even if that private entity is exercising federally granted condemnation power. 4

Agua Fria contends that Tennessee Gas Pipeline Co. v. 104 Acres of Land, 828 F.Supp. 123 (D.R.I.1993), aff'd in part and vacated in part on other grounds, 32 F.3d 632 (1st Cir.1994), supports its contention that the term "United States" includes Transwestern for purposes of § 4654(a)(2). We disagree. In Tennessee Gas, a private gas company, acting under FERC's authority to acquire property for a pipeline, dismissed a condemnation proceedings it had brought against a landowner after FERC approved a change in the pipeline's route. Id. at 124–25. The district court held that, under these circumstances, it would deem FERC to have abandoned the proceedings for purposes of § 4654(a)(2). Id. at 128. The court therefore concluded that the landowner was entitled to litigation costs and fees under § 4654(a)(2) "whether or not Tennessee Gas is an entity within the term 'United States' as used in the statute." Id. In other words, Tennessee Gas avoided the very point Agua Fria claims it supports.5

5 "If the plain meaning of the statute is unambiguous, that meaning is controlling and we need not examine legislative history as an aid to interpretation unless the legislative history clearly indicates that Congress meant something other than what it said." Greenwood v. CompuCredit Corp., 615 F.3d 1204, 1207 (9th Cir.2010) (quoting Carson Harbor Vill., Ltd. v. Unocal Corp., 270 F.3d 863, 877 (9th Cir.2001) (en banc)) (internal quotation marks omitted). Agua Fria has not pointed to any legislative history that contradicts the plain language of the statute. Rather, the House Report on which Agua Fria relies indicates that § 4654(a) was intended to reimburse property owners for fees and costs incurred "where (1) the court determines that a condemnation was unauthorized, [or] (2) the government abandons a condemnation." H.R.Rep. No. 91–1656, 91st Cong.2d Sess., reprinted in 1970 U.S.C.A.N. 5850, 5874–75 (emphasis added). This interpretation is consistent with the plain language of the statute and does not suggest that Congress intended to make fees and costs available when a private party abandons a proceeding. Further, Congress made no changes to the term "United States" in § 4654(a)(2) when it changed the definition of "Federal agency" to include private persons. See Uniform Relocation Act Amendments of 1987, Pub.L. No. 100–17, § 402, 101 Stat. 132, 246. Had Congress wished to include private persons in the meaning of the term "United States," it clearly knew how to do so. See Landgraf v. USI Film Prods., 511 U.S. 244, 255–56, 114 S.Ct. 1483, 128 L.Ed.2d 229 (1994).

Because we adhere to the plain meaning of the term "United States" in § 4654(a)(2), and that term does not include private entities, we affirm the district *1272 court's denial of Agua Fria's motion for litigation costs and fees.6

‘Resolved’ indicates a policy action.

Parcher 1. [Jeff. 2/26/01. "Re: Jeff P--Is the resolution a question?"

<https://web.archive.org/web/20050122044927/http://www.ndtceda.com/archives/200102/0790.html>]

Justin recut //RX

(1) Pardon me if I turn to a source besides Bill. American Heritage Dictionary: **Resolve**: 1. To make a firm decision about. 2. **To decide** or express **by formal vote**. 3. To separate something into constituent parts See Syns at *analyze* (emphasis in original) 4. Find a solution to. See Syns at *Solve* (emphasis in original) 5. To dispel: resolve a doubt. - n 1. Firmness of purpose; resolution. 2. A determination or decision.

(2) The very nature of the word "resolution" makes it a question. American Heritage: **A course of action determined or decided on. A formal statement of a decision, as **by** a **legislature**.**

(3) The resolution is obviously a question. Any other conclusion is utterly inconceivable. Why? Context. The debate community empowers a topic committee to write a topic for ALTERNATE side debating. The committee is not a random group of people coming together to "reserve" themselves about some issue. There is context - they are empowered by a community to do something. In their deliberations, the topic community attempts to craft a resolution which can be ANSWERED in either direction. They focus on issues like ground and fairness because they know the resolution will serve as the basis for debate which will be resolved by determining the policy desirability of that resolution. That's not only what they do, but it's what we REQUIRE them to do. We don't just send the topic committee somewhere to adopt their own group resolution. It's not the end point of a resolution adopted by a body - it's the preliminary wording of a resolution sent to others to be answered or decided upon.

(4) Further context: the word resolved is used to **emphasis** the fact that **it's policy debate. Resolved comes from the adoption of **resolutions by legislative bodies**.** A resolution is either adopted or it is not. It's a question before a legislative body. Should this statement be adopted or not.

Violation: they don't defend the USFG

There's three impacts –

1. **Clash.** It's a pre-requisite to debate which is an intrinsic good since we are all here for the purpose of debating. Clash is a voter: The **definition** of debate is clash – you should use your ballot to assert that since we all took our weekend and spent it here, that clash does have meaning.
2. **Iterative argument testing:** Absent topicality teams run moral truisms—having to research the topic makes us learn more and become more compelling advocates
3. **Procedural fairness.** Not being topical means that research ground is exploded and we can't adequately prepare. Fairness is key to debate and a voter: that's the only thing **this one round** needs to accomplish: by reading technical arguments, they are intrinsically conceding that the judge needs to evaluate the debate under a fair lens.

4. Quantum Thinking – procedurally limited topics facilitate second level argument development – open topics encourage linear thinking and prevent in-depth engagement

Grossberg 15 - Morris Davis Distinguished Professor University of North Carolina at Chapel Hill (Lawrence, We All Want to Change the World THE PARADOX OF THE U.S. LEFT A POLEMIC, http://www.lwbooks.co.uk/ebooks/we_all_want_to_change_the_world.pdf)

I will, in the following description, focus on the situation in the human sciences (rather than the hard sciences), where the explosion of publication creates an ever-expanding circle in which there is always too much to read—too many positions, too many arguments, too much contradictory evidence—so that scholars have to rely on either the author's stature or theoretical and/or political agreement. It has become almost impossible to read everything one must read, everything necessary to legitimate, at least in traditional terms, the claim of academic expertise or scholarship. In fact, given this situation (and its consequences as I will describe below), the most surprising thing is how much good work continues to be produced. This situation has serious consequences: First, one's expertise becomes defined in increasingly narrow terms, resulting in the proliferation of sub-fields.⁹ [insert footnote 9] For example, one might point to security studies, surveillance studies, transition studies, game studies, code studies, hip-hop studies, horror studies, etc. [Footnote 9 ends] And while each of them is valuable for their interdisciplinary efforts around a new empirical field, they all too often act as if the questions (and the realities they interrogate) are new; unfortunately, they rarely say anything new or surprising, anything that has not been said elsewhere. They frequently simply re-discover in their own empirical "pocket" universe what others have said previously in other fields. For example, all sorts of technologically defined sub-fields rediscover the rather old assumption that media audiences are active. This is partly because, within each subfield, one gets the impression of witnessing endless redistributions of a highly circumscribed set of citations and authors, under a series of ever-changing terms to describe their fields or positions. So, academics create ever shrinking circles in which authors cite a few theoretically and politically compatible works, and then follow the footnotes, all of which ultimately lead back to the original authors, creating an endlessly self-referential closed system of citations, a numbingly predictable, circular tissue of references. Second, one is less likely to read work that appears tangential but may nevertheless be absolutely decisive to producing truly interesting and insightful research. Asking significant questions should demand that one makes reference to all sorts of concepts and questions which would lead one to follow other unexpected traditions and lines of research, since any investigation (e.g., around questions of participation, publics, or leadership, to use only a few examples that have irked me recently) is likely to open up to an entire history of problematization, of conversations and debates, but who can afford the time and energy anymore. Third, one tends to read only the most recent work since so much is being published—in various media—so rapidly that there is little time to go back and read. Fourth, one tends to select one's sources according to criteria that have more to do with theoretical and political sympathies than with an understanding of research as a conversation with difference. One reads selectively, finding those ideas that are already in line with what one assumes one already knows, and one establishes a body of near-sacred texts; fifth, one selects topics that are au courant, partly because there is less scaffolding that one has to build upon and partly because one's work is more likely to gain visibility and impact. Sixth, complexity goes out the door as one increasingly "sees the world in a grain of sand". One can no longer be satisfied claiming to have discovered merely a new piece of a complex puzzle or even an interesting redeployment of an older practice or structure, because such claims do not bring fame and glory—either to oneself or the university. Instead, one has to have discovered the leading edge, the new key or essence. One good but relatively small idea is expanded into a metonym for the entire economy, culture or society. Instead of seeking new discursive forms to embody complexity, uncertainty and humility, one goes with elegance, hyperbole and the ever receding new.

That's a prereq to the K because without critical thinking you don't have any real research from the K and it's also a voter because education is the only portable skill and the reason schools fund debate

Drop the debater –

- 1) Sets norms through negative reinforcement as people can avoid violating while gaining access to run the shell**
- 2) No matter we do in this debate, we are at a structural disadvantage from an educational and fairness standpoint. Time spent on theory cant be made up- I was forced to run theory and undercover substance meaning dropping the argument doesn't rectify the time skew. The only way to rectify the harm is to drop them. This also answers why dropping the argument is not enough.**

Prefer competing interps. Three warrants -

- 1) Defending the interpretation is the only way to generate offense on theory, so debaters have incentives to run advocacies consistent with the most fair interpretation, because otherwise they would lose the theory debate.**

No RVIs – 2 warrants

- 1) Maintain genuine theory. RVIs disincentivize theory to check actual abuse as people will be afraid of the collapse to the RVI debate.**
- 2) T is just an argument for why the aff is a bad idea, which is what every single negative position says — there's nothing unique about T that causes violence, but the [X] k or case turns don't. Also we have no other options, so voting issues magnifies our offense.**

On the K -- Top Shelf

External offense is impossible and your ballot cannot solve; they must win individual debates impact subjectivity: that is impossible —

A — alt causes: friends, family, religion, and the next 80 years outweigh.

B — empirically disproven: every round they have won or lost reading this 1ac disproves the idea that norms will change because of your ballot.

C — blocks change, not people: if we lose, we will internalize the decision as a technical error and update our T blocks. Arguments are divorced from beliefs.

D — switch side debate structurally solves: we negate what we said on the other side, which prevents us from forming attachments to certain arguments.

Method Counterstories

1. T: Counterstories reinforce preconceived notions about groups and silence those who aren't native English speakers. Liston and Rhami 17

Delores D. Liston and Regina Rahimi, 2017, "Promoting Social Justice through the Scholarship of Teaching and Learning on JSTOR," No Publication, <https://www.jstor.org/stable/j.ctt2005zc2>, Date Accessed: 2025-01-18T05:05:11.295Z //RX -- ask Raymond for PDF. Pages 183–186

Just as **counterstories** can give students multiple perspectives and combat stereotypes, so, too, can they **reinforce dominant ideologies**. In our experiences of giving students space to share their stories, sometimes this sharing does not go as we anticipate. We draw here on SoTL in an effort to be transparent about our teaching practices, offering an educative perspective for ourselves and others. For us, these challenges are just as important, if not more so, than the successes, as they remind us to be conscious of how we frame our class discussions and how we interrogate students' beliefs. The two anecdotes below, where we highlight some difficulties with using counternarratives, are included not as an indictment of the students themselves nor of this particular pedagogy. Rather, we see understanding the challenges of counterstories as vital to using them in transformational ways. Scott in Michigan The semester had been going fairly well. I was teaching a cohort of undergraduates who had self-identified as, and thus enrolled in a program for, future "global educators." Our course was centered on immigration, language, and culture. The goal of the course was to help students problematize popularized ideas of immigrant experiences, to combat the idea of a single immigrant story. Of my nineteen sophomores, all were female. Seventeen were White. Most students engaged in our class discussions, videos, and activities, offering their opinions and interpretations of the readings and what this new knowledge might mean for them as future educators. However, two of the students were from China and seemed to be having trouble finding their voice in the classroom and connecting with the other students. At one point, there was a physical distance between them and the White students as they all filed into class, with the two **students** from China sitting in a corner with a physical gap between them and the next student. While the Chinese students engaged in all of the written assignments 184 | Farver and Dunn and had strong opinions, they seemed hesitant to share these opinions and personal experiences with the class. When I approached them about it after class one day, they indicated they **were hesitant to speak English in front of** other **native speakers**, but they were enjoying the content and felt like they were learning a lot. Without wanting to pressure them too much, I encouraged them to speak out more and reminded them that our course was a place to share experiences as they related to our themes and readings. I was hopeful that our week on examining the myth of the "model minority" would help them find their voices and join in whole-group discussions, since our readings and videos included stories of Cambodian students who challenged the prevailing idea that all Asian students acted a certain way (Pass or Fail in Cambodia Town, 2014). I wanted them to

be able to speak back and offer their counterstory to this prevailing myth as well. They promised that they would try. Coming to class that day, my hope was for students to be able to confront ideas of "positive" stereotypes, which, in actuality, are very problematic for people within those groups. For example, the positioning of all Asian American students as successful because of a reigning belief that they possess a particularly strong work ethic and an inherent, almost genetic, focus on schooling, while seeming to be a "good" stereotype, can be harmful to many of those same students (Wing, 2007). This can produce an "othering" that reproduces racial inequalities (

2. T: The win/loss makes listeners question the validity of the claims and reifies existing master narratives. Silverman no date

Silverman et al, no date, No Publication,

https://www.jugendundmedien.ch/fileadmin/PDFs/anderes/schwerpunkt_Radikalisierung/Impact-of-Co-Unter-Narratives_ONLINE_1.pdf, Date Accessed: 2025-01-18T05:26:49.841Z //RX

Engagements were labelled as antagonistic when an individual user disputed or dismissed the content or organisation in an unconstructive way, or disputed other users' comments. Examples of this can be seen from Twitter users who responded to the ExitUSA promoted tweets with accusations of the organisation having a bias towards non-whites. As to be expected, scepticism towards the motivations of the organisations was a theme that was apparent across all three campaigns, and produced numerous examples of antagonistic commentary or responses from users. The importance of presenting the messengers of a counter-narrative as authentic appears to be a key aspect in the ability of the campaign to produce impactful results, and underlines the importance of organisations using credible messengers. It also suggests that making public the role of AVE within or during the campaigns could have undermined this credibility by exacerbating such scepticism.¹³ There were, overall, five conversations (counted as repeated comments by more than one individual) in response to ExitUSA's campaign that included posts with racial hatred in the form of texts or images. Eleven individuals were, at a minimum, sympathetic to white supremacist ideology. Again, this gives a good indication that the campaigns were reaching their target audience.

1NR

AT: Latinx IVI

The term Latino/Latina embodies the neocolonialist attempt at fitting all humans into binary categories—need action to prevent doing so

Sebastian Ferrada, 2023-02-22, "Rejecting the use of 'Latinx' is transphobic," San Francisco Chronicle, <https://www.sfchronicle.com/opinion/openforum/article/latinx-lgbtq-trans-17797349.php>, Date Accessed: 2024-06-30T23:56:37.956Z //RX

In 2018, Univision interviewed me to discuss the meaning of the identity label Latinx. I was nervous because I had never discussed gender and sexuality in a "formal" Spanish setting, let alone on national television — my 92-year-old abuelita was going to be watching! At the end, the reporter asked if I identified with the term. I surprised myself when I replied "yes" without pause. It was the first time I had publicly affirmed my nonbinary identity. In the months that followed, family, friends and I talked about what this meant for me, what pronouns I would use and how we would have patience with each other in the process. Patience was necessary. The debate over the use of Latinx (and more recently, Latine, which I prefer) to refer to people with origins in Latin America has become a source of fierce disagreements among Latine people of all races, ages, genders and sexual identities. But the debates largely miss the point: Whether one prefers to use Latinx or Latine, both terms recognize and honor the presence of gender-fluid identities. What is most striking about these "debates" is that they **rarely (if ever) center the voices and experiences of the transgender, nonbinary and gender-fluid Latine people who do identify with the term. The linguistic debate on Latinx, then, serves as a useful example to understand the transphobia prevalent in our community and the importance of adopting language that better reflects our communities writ large.** Critics of the term Latinx often cite linguistic purity and Spanish heritage for their critiques.

Some claim that Latinx is an abomination to the Spanish language because it does not follow proper grammar or phonology, noting that the "o" in [Latinx] — or any other identity label such as Dominicano, Chileno, Mexicano, for example — is already inclusive of the collective. While this argument may be grammatically "correct" according to mainstream Spanish, it does not take into account the invisibilities the "o" creates. Latinx provides a linguistic vehicle to represent gender-fluid experiences and to organize these communities under an inclusive umbrella. However, some people use Latinx as a catch-all term since the "x" can be a stand-in for any of the other identities: -a, -e, and -o. The critiques also ignore the political context. In my research on queer and trans-Latine communities, I first noticed the use of the "x" in 2016, when community organizers were debating more inclusive language in their social media presence. Some have also cited the emergence of Latinx after the Pulse shooting in Orlando, Fla., when media outlets tried to accurately represent the diverse gender identities of the victims. Last year, the Atlantic published an article claiming that congressional staffers encourage [Latinx] legislators to avoid the term Latinx because it is "divisive." This **rationale aims to create the illusion of a politically unified Latine voting bloc** — instead of understanding the complex experiences that are categorized unilaterally as "Latino." For decades, members of Congress and Hollywood have discussed "struggling" with understanding the vastly diverse group of people that the terms Latina/e/o/x include. **Calling attention to this diversity is precisely the point of Latinx. Negating the term also contributes to an erasure of trans experiences that perpetuates violence and discrimination. Currently, the rights of transgender communities across all races and ages in the U.S. are under attack. Trans women already experience greater employment discrimination than any other demographic and are more likely to be victims of violent crimes.** The insistence on **rejecting the use of Latinx is a transphobic act because it denies trans-Latine and Latinx people a term that represents them.**

When conservative leaders in our communities double down on that denial, it shows that they don't see trans-Latinas as part of the communities they represent. For instance, the president of the League of United Latin American Citizens, the oldest and largest [Latinx] civil rights organization in the U.S., claims that we should drop the use of the word altogether since so few people like it. More recently, Republican Rep. María Elvira Salazar of Florida introduced an amendment to the House appropriations bill that would prevent the executive branch from referring to Latinos as Latinxs in official, public-facing documents and prevent any funds from being allotted for producing documents that use "Latinx" or "Latin-x." And last month, on her first day in office as Arkansas governor, Sarah Huckabee Sanders banned the use of the term Latinx in all official state use. Early this month, a group of Democratic [Latinx] state legislators in Connecticut introduced a similar bill. Untangling fluid social constructs like language and gender can be challenging. But perhaps the point is not to untangle. Linguistic expressions hold many possibilities in how people affirm themselves, their communities and how they can imagine other ways of identifying, loving and being in the world. That's where I see the power and hope in these language practices — the power in recognizing someone else's beauty and humanity. Whether the terms Latinx and Latine become widely adopted or not, they resist the urge to fall in line with the collective "o" in Latino and enforce the idea that trans people do, in

fact, exist in our communities. **The move to gender-inclusive language is a reminder and a call to action for all of us to actively engage with and recognize their experiences, struggles and joy.**

AT: Topicality DAs

2AC Reid Brinkley is a straw argument -- the article later concludes that policymaking simulation is better because it allows actual discourse

THEIR reid brinkley evidence

Reid-Brinkley 08 [Shanara Reid-Brinkley, Assistant Professor and Co-Director of Forensics at California State University Fullerton, "The Harsh Realities of "Acting Black": How African-American Policy Debaters Negotiate Representation Through Racial Performance and Style", July, 2008, University of Georgia, https://getd.libs.uga.edu/pdfs/reid-brinkley_shanara_r_200805_phd.pdf, Accessed February 15, 2023]
RP

For Jones and Floyd, such privilege comes with responsibility. Their **educational** status gives them **entrance into discourse** communities from which other blacks, without such status, may be excluded. Thus, according to these **debaters** they must **use the entrance into these spaces toward bettering the social, economic, and political situations of other blacks**. Such a stance is critical, as Green observes: "When we choose to stay silent about our privileges that we hold, we keep it in its maintenance and allow for hegemony by continuing to justify its existence."¹²⁴ It is not only their own statements of privilege that the Louisville debaters call for they also argue that every debater should engage in that process. In the debate against Emory's Allen and Greenstein, Green asks the following rhetorical questions during her 1NC: "What is your purpose for debating? And, if you do have a purpose, how do you achieve that purpose within this debate arena?"¹²⁵ In the Emory debate, the opposing team does make a statement of privilege. However, Green argues:

OFF -- IVIs Bad (Formatting)

- A. Interp: All pre-fiat positions intended to garner offense must have an explicitly-defined interpretation which delineates what should be permissible and what shouldn't, an explicitly-defined violation expounding what happened in the round that was not permissible, and at least one explicitly-defined standard and voter describing why obedience of the interpretation is important.**

Basically, don't read IVIs and read them as shells instead

- B. Violation: They read an IVI.**

- C. Standards:**

- a. Rectification: Not having an interp/violation makes it difficult for us understand what I am/we are supposed to do which means that if it's a bad action I still can't rectify it in future rounds**
- b. Shiftiness: Not having well-defined interps allows teams to shift in the backhalf because they just make it more specific later**
- c. Time skew: They're able to read dozens of blippy one line IVIs and go for any while we have to respond to each one—IVIs take longer to respond to than to read.**
- d. Reciprocity: We read a shell with discrete standards which means it's unfair for them not to do that**

- D. Voters**

- 1. Education – they undermine the core benefits of debate, and actively promote a system that prevents the educational impacts established through the standards outlined above**
- 2. Fairness – they prevented argument clash and gained an advantageous imbalance by reading a blippy IVI**

External offense is impossible and your ballot cannot solve —

1 — they must win individual debates impact subjectivity: that is impossible —

A — alt causes: friends, family, religion, and the next 80 years outweigh.

B — empirically disproven: every round they have won or lost reading this 1ac disproves the idea that norms will change because of your ballot.

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