

FIFTY STATES, VIRTUALLY NO IMPACT:

THE NEGLIGIBLE EFFECT OF U.S. CARBON REDUCTION

POLICIES ON GLOBAL TEMPERATURES

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EXECUTIVE SUMMARY:

- Abundant, affordable, and reliable energy is the foundation of modern prosperity, and American demand for it is set to climb as data centers, advanced manufacturing, and even more electrification come online.
- Climate change is the most common argument for restricting domestic energy; however, using the same climate model the United Nations relies on and assumptions chosen to overstate the effect, we find that eliminating every ton of U.S. fossil-fuel carbon dioxide would lower global temperatures by only about 0.24 degrees Celsius in 2100, about one-twentieth of the warming a standard scenario projects.
- Broken down state by state the effect is smaller still, with no single state reaching even three-hundredths of a degree by 2100, so regardless of one's perspective about climate change, state lawmakers should weigh the real economic cost of carbon-reduction policy against a climate benefit too small to measure.

ABSTRACT

This paper asks a simple question: If the United States were to cut its carbon-dioxide emissions, how much would global temperatures actually change? Using the Model for the Assessment of Greenhouse Gas Induced Climate Change (MAGICC), we remove fossil-fuel carbon dioxide from a standard emissions scenario, first for the whole country and then one state at a time, under assumptions chosen to make the temperature savings as large as possible. Eliminating all U.S. energy-related fossil-fuel carbon dioxide lowers projected warming by about 0.24 degrees Celsius in 2100, and no individual state reaches even 0.031 degrees. The result does not depend on any contested piece of climate science; it follows from a single country's small share of a global total. Because the climate benefit of unilateral carbon reduction is so small while its costs to energy affordability and reliability are real, policy should favor energy abundance over energy restriction.



Introduction

Nearly every advance in modern living standards rests on a single foundation: access to abundant, affordable, and reliable energy. In a recent data-driven analysis, we documented this relationship across the entire historical record and around the world, showing that higher energy use goes hand in hand with higher incomes, greater productivity, larger agricultural output, and better public health ([Dayaratna & Miller, 2026](#)). Energy is not incidental to these gains. It powers the factories, hospitals, water systems, and computers on which a modern economy runs, and it raises the output that a given amount of labor and capital can produce (Smil, 2017; [Dayaratna et al., 2023](#)). This paper builds directly on that work, turning from the benefits of energy abundance to the costs of restricting it.

Because energy is bound so tightly to human welfare, policies that restrict its supply or raise its price carry real costs. The usual justification for accepting those costs is climate change. The argument is familiar: the United States is a large economy and a large emitter, so it should cut its use of fossil fuels to hold down future warming. This paper does not dispute that a warming climate is worth taking seriously. It asks a narrower and more answerable question: If the United States reduced its carbon-dioxide emissions, how much would global temperatures actually change?

The answer, as we show below, is very little. Climate impacts are trifling even when the entire country is decarbonized, and they become virtually nothing when the policy is implemented on a state-by-state basis. This conclusion does not depend on any particular reading of climate science; it follows from assuming the more dire assumptions about climate change by climate alarmists. Moreover, the finding rests on basic arithmetic. No single country, let alone a single state, is responsible for more than a small share of global emissions.

Energy Abundance and Human Flourishing

Let's start with what energy delivers. Across the entire historical record, higher energy consumption tracks closely with higher per capita income, greater labor productivity, larger agricultural output, and better public health, and it does so at every stage of development ([Dayaratna & Miller, 2026](#)). The relationship runs in both directions: energy access raises incomes, and rising incomes finance still more energy use ([Kraft & Kraft, 1978](#); [Ozturk, 2010](#)).

For public health the connection is not merely statistical; it is physical. Hospitals need reliable electricity for surgical lighting, sterilization, refrigerated vaccines, diagnostic imaging, and life support. Clean water and wastewater treatment depend on energy for pumping, filtration, and treatment. As energy use has spread across the globe, global life expectancy has more than doubled, from about 32 years in 1900 to more than 73 years today, and child mortality has fallen from nearly 25 percent in 1950 to under 4 percent ([World Health Organization, 2025](#); [Dayaratna et al., 2023](#)).

American demand for energy is now set to rise after two decades of flat consumption. Artificial intelligence data centers, advanced manufacturing, and the electrification of

transportation and heating are driving sustained new demand. The International Energy Agency projects U.S. electricity demand growing by about 2 percent per year through 2030, with about half of that growth coming from data centers alone ([International Energy Agency, 2026](#)). The artificial intelligence boom in particular is running up against a grid that regulation has left unprepared to expand ([Dayaratna, 2026](#)). Policies that constrict supply run headlong into that reality. That is precisely why the climate case for restricting American energy deserves a hard look, and why the size of the temperature benefit is the number that matters.

Would U.S. Carbon Reductions Change the Climate?

To measure the temperature effect of cutting U.S. emissions, we use the Model for the Assessment of Greenhouse Gas Induced Climate Change (MAGICC), version 6. MAGICC is a well-established reduced-form climate model that reproduces the behavior of the far more complex models used by the Intergovernmental Panel on Climate Change (IPCC), and it is built for exactly this kind of scenario comparison ([Meinshausen et al., 2011](#)). The model, the governing equations, and our treatment of U.S. emissions are described in the Appendix.

Our procedure is straightforward. We first run a baseline using Representative Concentration Pathway 6.0 (RCP6), a standard scenario supplied with the model. We then remove the fossil-fuel carbon dioxide attributable to a given jurisdiction, beginning in 2020, and run the model again. The gap between the two temperature paths is the warming that jurisdiction's emissions would have caused. State emissions shares come from the Energy Information Administration's State Energy Data System, which reports energy-related carbon dioxide by state through 2022 ([U.S. Energy Information Administration, 2024](#)).

We chose our key assumptions to overstate, not understate, the benefit of cutting emissions. Our simulated emissions cuts begin in 2020 and are treated as permanent. Additionally, we set the equilibrium climate sensitivity to 5 degrees Celsius, at the top of the plausible range. The Intergovernmental Panel on Climate Change puts the best estimate at 3 degrees Celsius and the very likely range at 2 to 5 degrees ([Intergovernmental Panel on Climate Change, 2021](#)), so our value sits at the upper bound of what the mainstream literature considers credible. A higher sensitivity produces a larger temperature response to any given emissions cut. If domestic carbon reductions look trivial under these generous assumptions, then they will look smaller still under more realistic ones.

The aggregate result is quite trifling. Eliminating all energy-related fossil-fuel carbon dioxide in the United States, starting in 2020 and sustained thereafter, lowers projected global warming by about 0.11 degrees Celsius in 2050 and about 0.24 degrees Celsius in 2100 (a figure we round upward here to avoid any risk of understating the effect). To put that in perspective, RCP6 projects about 4.62 degrees of warming by 2100 at the sensitivity we used, so zeroing out the entire country removes only about 5 percent of it. This squares with earlier work finding that decarbonization limited to advanced economies would shave no more than a few

tenths of a degree off end-of-century warming ([Dayaratna, 2025](#); [Dayaratna & Loris, 2019](#)).

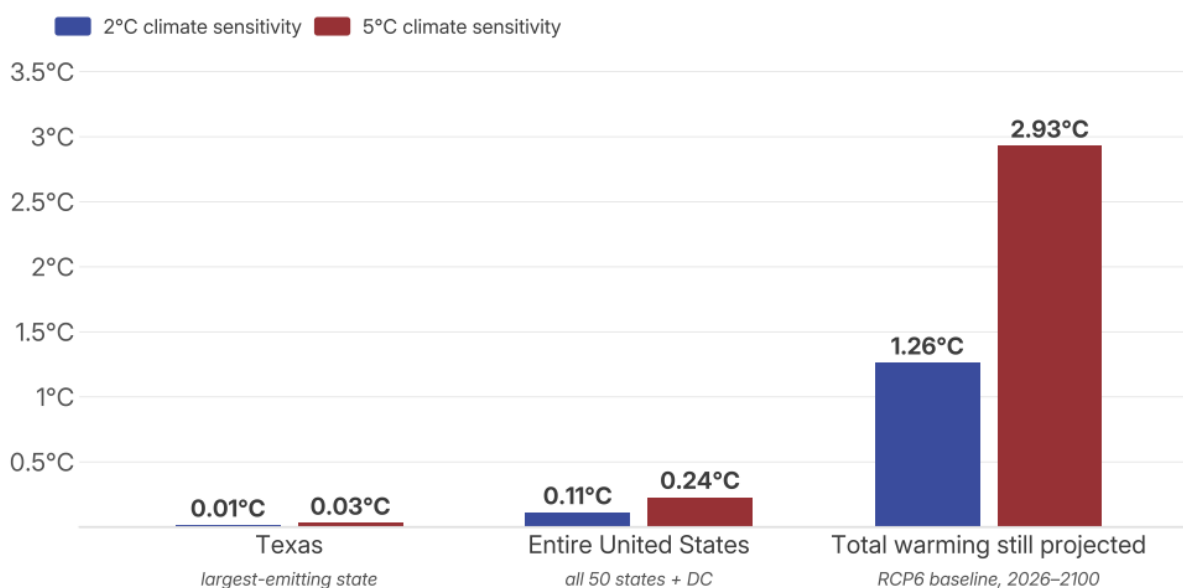
The comparison is easiest to grasp in a picture. Figure 1 sets the warming contribution of Texas, the largest-emitting state, and of the entire United States alongside the total warming the model still projects between today and 2100. It shows each at both ends of the range of climate sensitivities the Intergovernmental Panel on Climate Change considers plausible, the very likely range of 2 to 5 degrees Celsius around its best estimate of 3 ([Intergovernmental Panel on Climate Change, 2021](#)).

Figure 1

Contribution to Global Warming by 2100



MAGICC v6 model, warming by 2100 under RCP6, across the IPCC very likely climate-sensitivity range (2°C–5°C)



Source: Author's calculations using MAGICC v6; U.S. Energy Information Administration (2024).

The result holds across that range. At the higher, 5-degree sensitivity, eliminating every ton of U.S. fossil-fuel carbon dioxide removes about 0.24 degrees Celsius by 2100, against about 2.9 degrees of warming still to come, a contribution of about 8 percent. At the more mainstream 2-degree sensitivity the absolute figures are cut nearly in half, to about 0.11 and 1.3 degrees, yet that 8 percent share barely moves, because a jurisdiction's contribution and the total projected warming scale together. Whichever sensitivity one adopts, the entire United States is a small share of the problem, and Texas by itself is a rounding error.

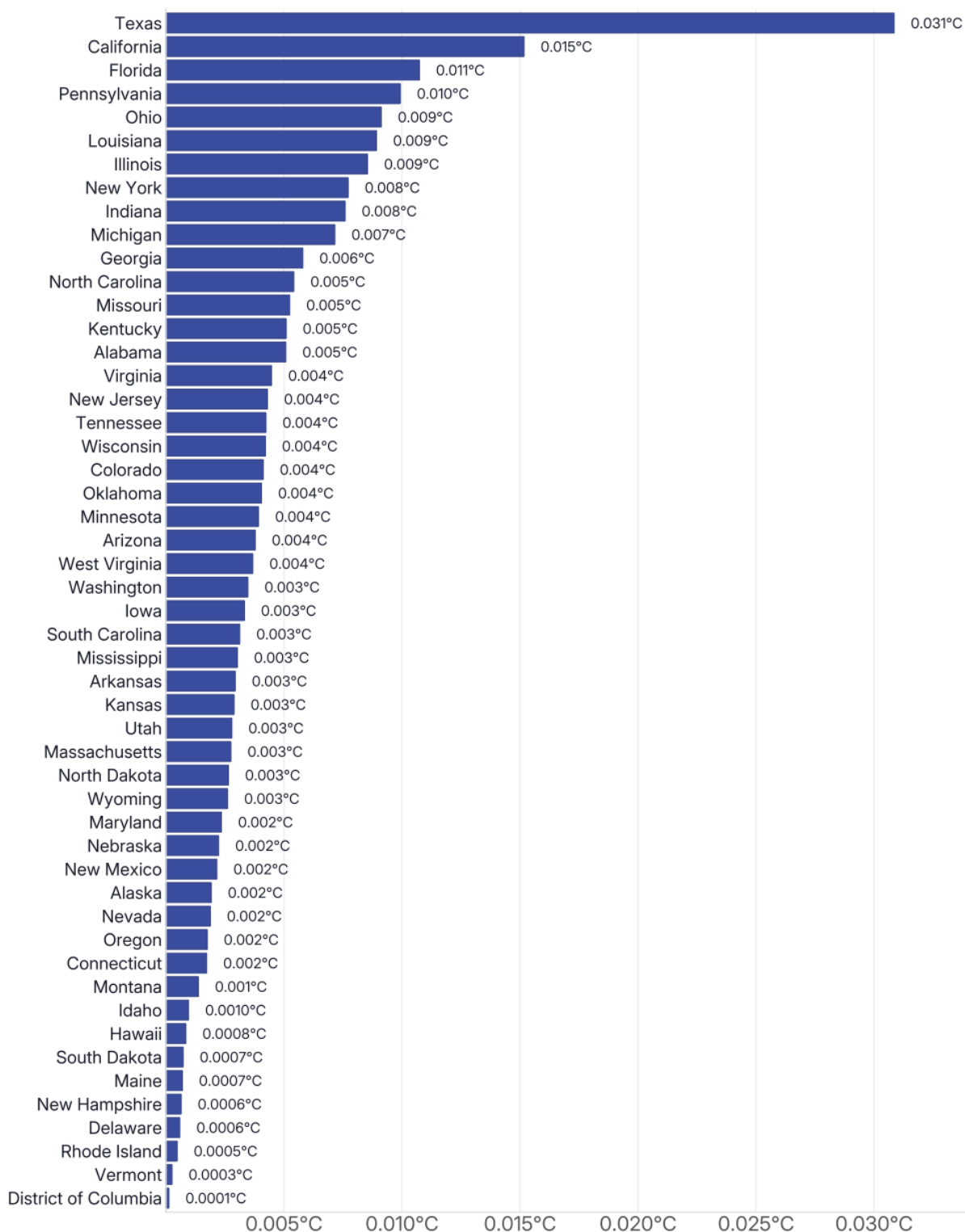
The point becomes clearer still one state at a time. Figure 2 shows the warming avoided by removing each state's fossil-fuel carbon dioxide, ranked from the largest emitter to the smallest; the complete list of all fifty states and the District of Columbia also appears in Appendix B.

Figure 2

Maximum State Contribution to Warming by 2100



MAGICC v6 model, upper bounds of warming averted by removing each state's fossil-fuel CO₂ emissions (°C by 2100)



Source: Author's calculations using MAGICC v6; U.S. Energy Information Administration State Energy Data System (2022 data).

As Figure 2 shows, Texas, which produces about 13 percent of the nation's energy-related carbon dioxide, accounts for about 0.031 degrees Celsius of avoided warming by 2100. California and Florida, the next largest, come in near 0.015 and 0.011 degrees. At the bottom of the list, the District of Columbia, Vermont, and Rhode Island each register a few ten-thousandths of a degree. The median state avoids about 0.003 degrees by 2100, and forty-eight of the fifty-one jurisdictions fall below 0.01 degrees. These are not simply small numbers in a policy sense. They are far below anything an instrument could ever distinguish from the natural year-to-year variability of the climate.

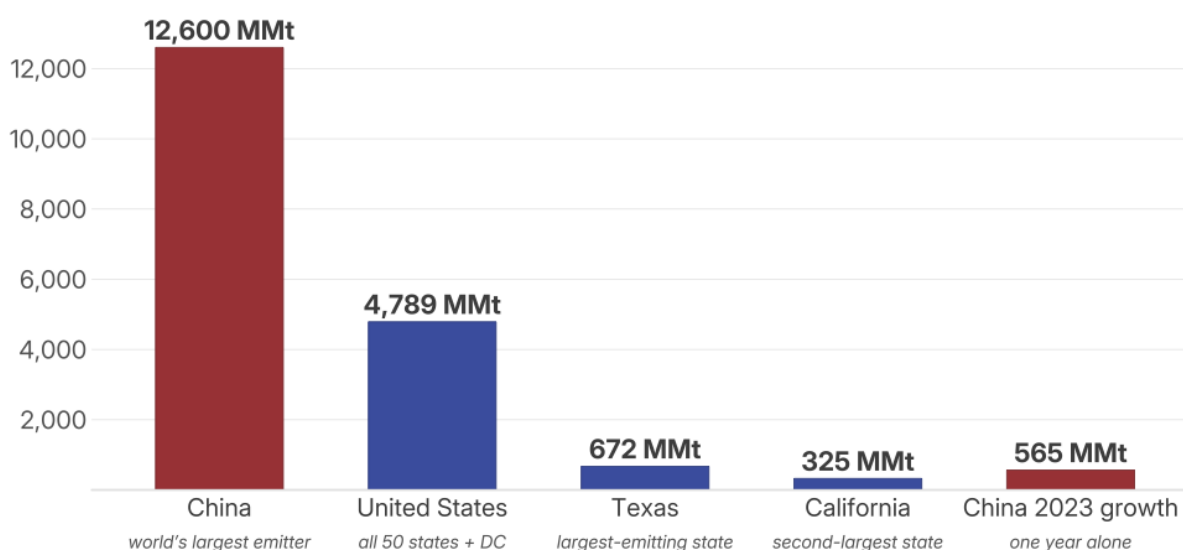
If the domestic numbers settle the question, the international picture makes it decisive. The emissions that drive global temperatures are increasingly concentrated abroad, and still climbing. Figure 3 sets China's energy-related carbon dioxide against that of the United States and its two largest-emitting states.

Figure 3

China's Emissions vs. the United States



Energy-related CO₂ emissions in 2023 (million metric tons)



Source: International Energy Agency, CO₂ Emissions in 2023 (China: 12.6 Gt total and its 565 MMt one-year increase); U.S. Energy Information Administration, State Energy Data System (U.S. and states, 2023 data).

China alone emitted about 12.6 billion metric tons of energy-related carbon dioxide in 2023, more than two and a half times the entire United States and about nineteen times the output of Texas ([International Energy Agency, 2024](#); [U.S. Energy Information Administration, 2024](#)). Its emissions grew by 565 million metric tons in that single year, an increase larger than the total annual output of any American state other than Texas, and close to Texas's entire footprint. The emissions China adds in a single year, in other words, rival what the largest American state emits in total. Against that arithmetic, no single state's reductions, and no realistic combination of them, can register in the global climate.

The conclusion does not hinge on the climate sensitivity, the choice of scenario, or any disputed point of climate science. It rests on something simpler. Global temperature responds to global emissions, and any one country, let alone any one state, controls only a fraction of the total. Run that fraction through a mainstream climate model with the assumptions tilted toward a large effect, and the temperature change is still too small to matter. A reader deeply worried about warming and a reader skeptical of it can agree on the policy point: cutting emissions in the United States alone buys no meaningful climate benefit.

Policy Implications

Two conclusions follow, and they point the same way. First, if the climate benefit of unilateral carbon reduction is negligible, then the costs of these policies deserve the scrutiny they are too often spared. Restricting energy or driving up its price reduces productivity, slows income growth, and narrows access to essential services, and those burdens land hardest on lower-income households and energy-poor regions ([Dayaratna & Miller, 2026](#)). When the climate benefit on the other side of the ledger is a few hundredths of a degree, the case for accepting those burdens collapses on its own terms.

Second, policy should be targeted toward achieving energy abundance, not energy restriction. A genuine all-of-the-above approach, one that lets energy sources compete on cost and reliability rather than on political favor, would expand supply and meet the demand now arriving from data centers, advanced manufacturing, and electrification. Where subsidies tilt investment toward favored technologies, they should be reconsidered; where permitting delays block generation and transmission that the market would otherwise build, reform is overdue ([Dayaratna & Loris, 2019](#)).

None of these considerations requires settling the larger debate over climate change. Instead, it requires only recognizing that the lever in question, cutting U.S. emissions, does not meaningfully impact the climate. This is especially worth remembering at the state level. A legislator weighing a carbon mandate, a low-carbon fuel standard, or a power-plant rule is being asked to impose real and immediate costs on his constituents in exchange for a change in global temperature that is, quite literally, too small to measure.

Conclusion

Abundant, affordable, and reliable energy is the foundation of modern prosperity, and the coming decade will call for more of it, not less. The most common argument for restricting America's energy supply is climate change; however, the climate return on that restriction is negligible. Eliminating every ton of energy-related fossil-fuel carbon dioxide in the United States would lower global warming by no more than 0.24 degrees Celsius by 2100, and that figure is generous by design; the contribution of any single state is a small fraction of even that. Whatever one's view of climate change, carbon-reduction policy confined to the United States, and still more to a single state, will not meaningfully change global temperatures. Policymakers, and state lawmakers in particular, should weigh their energy decisions accordingly.

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Appendix A. The MAGICC Model and Analytical Method

The analysis in this paper uses the Model for the Assessment of Greenhouse Gas Induced Climate Change (MAGICC), version 6. MAGICC is a reduced-form climate model that emulates the atmosphere-ocean and carbon-cycle behavior of the large general circulation models assessed by the IPCC at a small fraction of their computational cost ([Meinshausen et al., 2011](#)). It represents the climate as an energy balance, in which a change in the radiative forcing at the top of the troposphere is split between additional outgoing energy and heat taken up by the ocean.

Let $Q(t)$ denote the global-mean radiative forcing at time t , $\Delta T(t)$ the resulting surface-temperature change, and $N(t)$ the rate at which the climate system, mainly the ocean, takes up heat. The energy balance is

$$Q(t) = \lambda \cdot \Delta T(t) + N(t)$$

where λ is the climate feedback parameter that relates the outgoing energy flux to the surface-temperature change. The equilibrium climate sensitivity, the eventual warming from a doubling of carbon dioxide, follows from setting the ocean heat uptake to zero at equilibrium:

$$\Delta T_{2x} = Q_{2x} / \lambda$$

where the forcing term in the numerator is the radiative forcing from doubled carbon dioxide. A larger sensitivity corresponds to a smaller feedback parameter, so a given emissions change produces a larger temperature response. Combining the two relationships gives the time-dependent, or effective, sensitivity,

$$S_{eff}(t) = Q_{2x} \cdot \Delta T(t) / [Q(t) - N(t)]$$

which returns to the equilibrium value once the system reaches steady state. MAGICC couples this energy balance to a carbon-cycle module with temperature feedbacks and takes an emissions trajectory as an input. For that trajectory we use Representative Concentration Pathway 6.0 (RCP6), a reference scenario supplied with the model and specified in the IPCC's Fifth Assessment Report (Intergovernmental Panel on Climate Change, 2014).

To isolate the effect of U.S. emissions, we modify the reference scenario. Emissions data from the Environmental Protection Agency indicate that the United States accounts for approximately 43 percent of energy-related carbon dioxide among the member nations of the Organization for Economic Co-operation and Development (OECD), and we hold that share constant over the projection period ([U.S. Environmental Protection Agency, 2025](#)). Within RCP6 we adjust the OECD trajectory to reflect removing the U.S. portion beginning in 2020. Because we treat the reductions as immediate and permanent, our procedure overstates the temperature effect of any realistic policy.

We then extend this approach from the country to the individual state. We take each state's share of national energy-related carbon dioxide from the Energy Information Administration's State Energy Data System for 2022 ([U.S. Energy Information Administration, 2024](#)), and we obtain its share of the OECD reduction by multiplying that state share by the U.S. share of the OECD total. Removing that portion from RCP6 and running the model yields an altered temperature path; the difference from the

baseline in 2050 and 2100 is the warming avoided by eliminating that state's fossil-fuel carbon dioxide. Every simulation uses an equilibrium climate sensitivity of 5 degrees Celsius, near the upper end of the credible range and chosen, as noted above, so that our estimated temperature savings are larger than they would be under more conventional assumptions.

The MAGICC6 model remains publicly available for replication even though its original download page has been retired in favor of the newer MAGICC7. A complete, unmodified MAGICC6 distribution, including the executable and the RCP scenario files used here, is bundled with the open-source pymagicc package ([Gieseke et al., 2018](#)).

Appendix B. State-by-State Results

Table B1. Global mean warming avoided by eliminating each jurisdiction's energy-related fossil-fuel carbon dioxide, beginning in 2020. RCP6 reference scenario; climate sensitivity of 5 degrees Celsius.

Jurisdiction	Share of U.S. CO ₂	Avoided warming, 2050 (deg C)	Avoided warming, 2100 (deg C)
Alabama	2.21%	0.0024	0.0051
Alaska	0.84%	0.0009	0.0019
Arizona	1.65%	0.0018	0.0038
Arkansas	1.28%	0.0014	0.0029
California	6.61%	0.0072	0.0152
Colorado	1.80%	0.0020	0.0041
Connecticut	0.75%	0.0008	0.0017
Delaware	0.26%	0.0003	0.0006
District of Columbia	0.05%	0.0001	0.0001
Florida	4.68%	0.0051	0.0107
Georgia	2.53%	0.0028	0.0058
Hawaii	0.37%	0.0004	0.0008
Idaho	0.42%	0.0005	0.0010
Illinois	3.72%	0.0041	0.0085
Indiana	3.31%	0.0036	0.0076
Iowa	1.45%	0.0016	0.0033
Kansas	1.26%	0.0014	0.0029
Kentucky	2.22%	0.0024	0.0051
Louisiana	3.89%	0.0042	0.0089
Maine	0.30%	0.0003	0.0007
Maryland	1.02%	0.0011	0.0024
Massachusetts	1.20%	0.0013	0.0028
Michigan	3.12%	0.0034	0.0072
Minnesota	1.71%	0.0019	0.0039
Mississippi	1.32%	0.0014	0.0030
Missouri	2.29%	0.0025	0.0052
Montana	0.60%	0.0007	0.0014
Nebraska	0.97%	0.0011	0.0022
Nevada	0.82%	0.0009	0.0019
New Hampshire	0.28%	0.0003	0.0006
New Jersey	1.87%	0.0020	0.0043
New Mexico	0.94%	0.0010	0.0022
New York	3.37%	0.0037	0.0077
North Carolina	2.36%	0.0026	0.0054
North Dakota	1.16%	0.0013	0.0026
Ohio	3.98%	0.0043	0.0091
Oklahoma	1.76%	0.0019	0.0040
Oregon	0.76%	0.0008	0.0017
Pennsylvania	4.33%	0.0047	0.0099
Rhode Island	0.21%	0.0002	0.0005
South Carolina	1.36%	0.0015	0.0031
South Dakota	0.32%	0.0003	0.0007
Tennessee	1.85%	0.0020	0.0042
Texas	13.44%	0.0146	0.0309
Utah	1.22%	0.0013	0.0028
Vermont	0.11%	0.0001	0.0003
Virginia	1.95%	0.0021	0.0045
Washington	1.51%	0.0016	0.0035
West Virginia	1.60%	0.0017	0.0037
Wisconsin	1.84%	0.0020	0.0042
Wyoming	1.14%	0.0012	0.0026

United States (sum of states)	100.00%	0.1089	0.2294
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Source: Author's calculations using MAGICC version 6 and state emissions shares from the U.S. Energy Information Administration, State Energy Data System (2024).

Appendix C. Sources for Figures

Figure 1

Meinshausen, M., Raper, S. C. B., & Wigley, T. M. L. (2011). Emulating coupled atmosphere-ocean and carbon cycle models with a simpler model, MAGICC6: Part 1, Model description and calibration. *Atmospheric Chemistry and Physics*, 11(4), 1417–1456. <https://doi.org/10.5194/acp-11-1417-2011>

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Figure 2

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Figure 3

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