

Episode 57DGV 50 April 22 2025 United States State environmental fixes The first 10

In Episode 57DGV 1 United States State environmental fixes The first 10 2 United States 3 California 4 Kansas and Nebraska 5 Massachusetts 6 New York 7 North Dakota 8 Ohio 9 South Dakota 10 Canada 11 Australia 12 New Zealand 13 United Kingdom 14 China 15 PM2.5 and Human Health Main Content

1 United States State environmental fixes The first 10 1A Arizona 1B Colorado 1C Connecticut 1D Hawaii 1E Idaho 1F Indiana 1G Louisiana 1H Maryland 1i Massachusetts 1j Missouri **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501c3 nonprofit organization** The New York Times April 22 2025 50 STATES FIXES Environmental solutions may seem out of reach But they are happening all over the country This year we will be highlighting one thing that is working in every state 1A Arizona Living Car Free in Arizona on Purpose and Happily One community near Phoenix is taking a completely different approach to development March 25 2025 1B Colorado Bridges and Tunnels in Colorado Are Helping Animals Commute The state has emerged as a leader in building wildlife crossings which can save animals money and human lives March 25 2025 1C Connecticut Shell Recyclers in Connecticut Are Helping Oysters Find Homes A nonprofit group is rescuing shells from restaurant trash bins and using them to rebuild oyster habitat in Long Island Sound April 21 2025 1D Hawaii At This Clinic in Hawaii Nature Is the Medicine A neglected parcel of land was restored by volunteers and patients at a community medical center Along the way their health also improved March 25 2025 1E Idaho They are in Hot Water in Idaho Here is Why That is a Good Thing Nearly 500 buildings in the state capital get their heat from a clean renewable source located deep in the ground March 25 2025 1F Indiana In Indiana Putting Up Solar Panels Is Doing the work of God A cluster of evangelical groups in the state is pushing for environmental action Leaders say they are following the biblical mandate to care for creation April 21 2025 1G Louisiana Fighting Louisiana Floodwaters With Patches of Green Simple affordable initiatives like rain gardens are helping to soak up water in New Orleans April 21 2025 1H Maryland Protected Nearly a Third of Its Land and It is Reaching for More Nine states have set goals to conserve 30 percent of their land by 2030 Maryland got there first April 21 2025 1i Massachusetts Care About Food Waste? In Massachusetts You Can Be a Compost Consultant It is a dirty job and someone gets to do it March 25 2025 1j Missouri How a Funeral Director Brought Wind Power to Rural Missouri Every year for nearly two decades the small city of Rock Port has been producing more electricity from wind energy than it needs April 21 2025 We are telling one story from every US state

**Google Alerts**

2A United States PM2.5 Summary Health Impacts of Poor Air Quality National Academy of Medicine The contribution of wildfire to PM2.5 trends in the USA Burke et al 2023 Inequity in consumption of goods and services adds to racial-ethnic

2B United States Inflation Reduction Act and Trump attempted block that may affect Heat Pump Rebates Legal War Over Spending IRA Funds Continues ACHR News air source heat pumps IRA FUNDING BATTLE Inflation Reduction Act rebate incentives for air source heat pumps and other high efficiency HVAC United States Inflation Reduction Act and Heat Pumps Desperate homeowner seeks advice after water heater causes 400% bill increase The Cool Down And thanks to the Inflation Reduction Act buyers can claim a 30% tax rebate up to \$2000 on a heat pump water heater though the Trump

2C United States Heat Pumps Mitsubishi Electric Trane HVAC US Launches New Low GWP All Electric All Climate Heat Business Wire The high performing all climate heat pump product suite available now includes new indoor and outdoor residential units in popular series such as FX Mitsubishi Electric Trane HVAC US

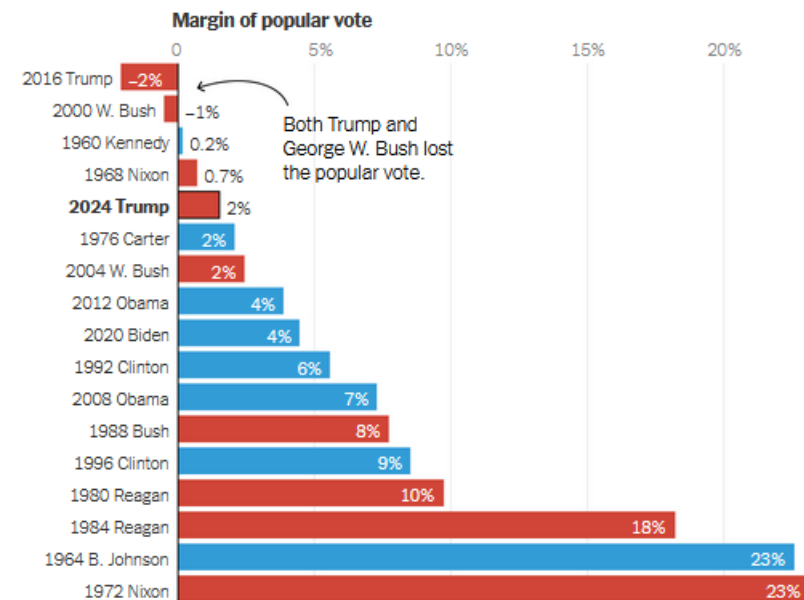


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Trump's margin of victory was small by historical standards



Source: Politifact

Launches New Low GWP All Electric All Climate Heat Morningstar The high performing all climate heat pump product suite heat pump and air conditioning systems in the United States and Latin America United States Heat Pumps Best Heat Pump Water Heaters of 2025 Consumer Reports tested heat pump water heaters to determine which ones were the most energy efficient and fastest at heating water United States Heat Pumps Bridging the Heat Pump Training Gap ACHR News To ensure performance longevity and profit HVAC techs need to be properly trained on all aspects of heat pumps or it could spell disaster for

2D United States Heat Pump Rebates The government wants to give you \$2000 for this cutting edge appliance The Cool Down It is one of many changes along with upgrading to electric heat pumps or applying for appliance rebates helping Americans electrify their homes and United States Heat Pump Rebates The True Cost Of \$999 Solar plus Battery Deals Revealed Solar Quotes Battery Standard battery installation next to meter box is included prices after Solar Vic Rebate and loan Heat Pump STC Calculator EV

2E United States Heat Pump Water Heater Rebates Ultra intelligent water heaters put older models to shame and you could get The Cool Down For example the IRA can knock up to \$1400 off the price of a heat pump water heater in both rebates and tax credits heat pump water heater rebate

3A California Forest Service to begin pile burning Tuesday in Cedar Ridge area The Union Democrat Stanislaus National Forest Mi Wok Summit Ranger District firefighters intend to burn high visibility wood piles in the Cedar Ridge area on Tuesday

3B California Do Heat Pumps Save You Money? In California It Depends on Your Electric Utility Inside Climate News Electric heat pumps are around three times more efficient than gas appliances and the Sudhakar clients typically use less energy overall after making

3C California Berkeley No plants no wood fences Berkeley bans anything flammable within 5 feet of many hills homes Berkeleyside The Berkeley Fire Department had proposed a slew of changes to city ordinances specifically the sections that relate to fire code Establishing

4 Kansas and Nebraska PM2.5 and limiting outdoor activity Millions in Two States Warned To Limit Outdoor Activity Newsweek The advisory is in place due to elevated levels of PM 2.5 particulates fine particles that are less than 2.5 micrometers in diameter and can pose Residents across eastern Nebraska are under an air quality alert from Tuesday evening through Wednesday morning due to increased concentrations of fine particulate pollution as residents in neighboring Kansas also faced elevated levels of air pollution The alert issued in coordination with the National Weather Service NWS the Nebraska Department of Health and Human Services DHHS and the Department of Environment and Energy NDEE warns of air quality levels ranging from Moderate to Unhealthy for Sensitive Groups

5 Massachusetts Operating a heat pump in Massachusetts is about to get cheaper Environment America For many utility customers in Massachusetts heating with a heat pump New rebate programs to cut energy waste in New Mexico September 3 2024 Heat pumps are efficient heating and cooling systems that can heat and cool your home in place of a furnace or boiler and an air conditioner Heat Massachusetts heat pump owners could pay less for electricity next winter Canary Media Many of the remaining homes use inefficient electric resistance heating The state climate plan calls for installing 500000 heat pumps by 2030 to

6A New York Earth Day Spotlight The Science Behind Heat Pumps Video Syracuse University News Shapiro says heat pumps work by moving heat from the outdoor air to the indoor space similar to how a refrigerator moves heat from the inside to the



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### Under Review

Ten universities targeted by the Federal Task Force to Combat Anti-Semitism.

School	Federal research and development funding	Share of university's research spending
Johns Hopkins University	\$3.3 billion	87%
Columbia University	\$989 million	74%
University of California, Los Angeles	\$879 million	51%
New York University	\$787 million	54%
University of Minnesota	\$702 million	53%
University of Southern California	\$684 million	59%
Northwestern University	\$678 million	61%
Harvard University	\$640 million	45%
University of California, Berkeley	\$496 million	46%
George Washington University	\$163 million	45%

Source: National Center for Science and Engineering Statistics. Numbers are for fiscal year 2023. University of Minnesota numbers are for the Twin Cities campus.

6B New York The Trump China Tariffs Hit the New York Clean Heat Experiment New York Focus Heat pumps allow homes to rely on electricity rather than gas for heating and cooling They typically include both indoor and outdoor components and

7 North Dakota Grand Forks Sunrooms Plus Inc offers wide range of products to enhance the home and lifestyle of one Grand Forks Herald New customers are taken aback by the number of burning displays which include gas wood and electric fireplaces But that is only part

8 Ohio Chillicothe What you need to know about the public camping ordinance recently passed Chillicothe Gazette The ordinance has been hotly ordinance that prohibits trespassing after hours littering open burning and more Teresa Wood from the law

9 South Dakota Milbank Watertown Fire Rescue Responds to Multiple Rubbish Fires Issues Burn Policy Reminder KXLG Only commercial firewood cut trees and charcoal are allowed to be burned in recreational fires WFR also issued a warning about the current dry

10A Canada Tesla Federal regulators freeze Tesla out of \$30 million EV incentives amid new tariffs The Cool Down The Canadian government has halted all Tesla rebates and banned future Tesla rebate A cleaner more affordable future might be just one heat pump

10B Canada Tesla New report exposes the Tesla \$30 million EV rebate loophole Tesla gamed the system The Cool Down A cleaner more affordable future might be just one heat pump

10C Canada Nova Scotia Mixed reaction to end of carbon tax rebates in Guysborough County Penticton Herald He added Converting to heat pumps and electric vehicles is a great goal and will save money and reduce GHG emissions from burning fossil fuels but

11 Australia The Australia Federal Government Battery Rebate What We Know Solar Quotes The Federal Government Battery Rebate What We Know And What You Can Do Now Heat Pump STC Calculator EV Chargers Top 5 EV Charger Brands

12 New Zealand Hidden harm The Wood smoke impact on Rotorua health Newstalk ZB wood burner checks in Rotorua to improve air quality A ban on older burners in 2020 has improved air quality but more work is needed Wood smoke

13 United Kingdom Heat pump installation need not be problematic Readers respond to a letter [RAWSEP View](#) It appears from anecdotal evidence that the paperwork involved with Heat Pump installation in the United Kingdom is not usually a problem for the average person [Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501c3 nonprofit organization](#) The Guardian Letters April 14 2025 First letter in response to a letter about a problem with a Heat Pump installation I had a heat pump installed last year I needed a new boiler and wanted to be as environmentally friendly as I could I have had solar panels for some years so I had a battery installed along with the heat pump I agree it is a very expensive process and I am unlikely to reap long term benefits as I am already 81 However I do not recognize the complicated procedure she speaks about The company that installed my pump dealt with the application for me There was some online form filling to prove I was entitled to the grant but it did not take long I spoke to the company at the end of May and it was installed in the middle of July I live in a four bedroom Edwardian house which has been warm all winter I used to pay £3000 per year for my gas and electricity For the first three months of this year my electricity cost has been under £400 which



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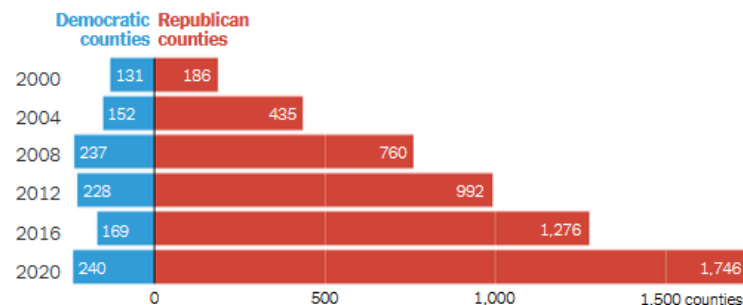


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The number of counties receiving significant federal assistance has ballooned since 2000



Source: Economic Innovation Group; The Wall Street Journal · Note: Significant assistance is defined as over 25 percent of total personal income.

includes charging my electric car At the moment heat pump installation is not for everyone but I would not want anyone considering having one installed to be put off because of the paperwork A woman from Teddington London Second Letter The overwhelming majority of heat pump installations do not need the planning permission that Dr Kirstine Oswald refers to – they are considered permitted development Nor you do have to use a government grant to have one installed – ours was recently installed without a grant and it cost less than it would now with a grant There is a legitimate point here in that as soon as a grant is available installers put their prices up And yes the cost of gas per kWh is far lower than that of peak electricity However a heat pump will deliver around 4kWh of heat per kWh of electricity used and if this is timed with off peak electricity it will be cheaper than gas per kWh For example at off peak electric of 14p per kWh heating via heat pump would cost around 35p per kWh as opposed to around 65p for gas A man from West Tolgus Cornwall Third Letter It is unfortunate that she had such a negative experience with a heat pump installation However I am surprised I have just had a heat pump installed in Sheffield by a local company who looked after everything All I had to do was sign the various documents they sent me The whole process took two weeks I agree that any savings will be minimal or possibly even non existent while the price of electricity is so high but the technology is far more efficient than a gas boiler and while the UK continues to expand electricity production from renewables the thought of relying on an imported fossil fuel for heating seems retrograde to say the least

13B United Kingdom England and Wales Map reveals residential wood burning hotspots in England and Wales The Guardian Dr Laura Horsfall from University College London said We began investigating domestic wood burning after our earlier study identified rising rates

13C United Kingdom Scotland Wood burning stoves to be included in Future Homes Standard H and V News Modern wood burning systems will be permitted as secondary heating sources in new build homes under the upcoming legislation 14 China Spatial characterization of periodic behaviors of ground PM 2.5 concentration across the ScienceDirectcom ABSTRACT Fine particulate matter PM2.5 has long been the major air pollutant across China but its periodic behaviors are still not comprehensively This study collected PM2.5 hourly concentrations at 168 sites across the Yangtze River Delta YRD and the North China Plain NCP during 2014 – 2024 15A PM2.5 and ADHD Long term effects of PM2.5 constituents on childhood attention deficit hyperactivity disorder ScienceDirectcom Organic matter and black carbon contributed most to the observed association Abstract Background Evidence linking fine particulate matter PM2.5 Mounting evidence indicates a positive association between an elevated risk of childhood ADHD and exposure to fine particulate matter PM2.5 Liu et 15B PM2.5 and blood coagulation Interactive effects of ambient fine particulate matter and ozone on typical blood coagulation ScienceDirectcom Residence may modify the effects of PM2.5 and O3 on typical coagulation parameters Abstract Background The evidence for the interactive effects of 15C PM2.5 and In Vitro Fertilization IVF success Seasonal air pollution found to undermine IVF success News Medical Net particulate matter PM with a diameter of 2.5 µm or less PM2.5 pollution on the outcomes of assisted reproductive technology ART How does 15D PM2.5 and neurodegenerative biomarkers in adults Association between chronic PM 2.5 exposure and neurodegenerative biomarkers in adults BMC Public Health BioMed Central This study confirmed the elevated PM2.5 levels at the study location exceeding the regulatory limits Women exhibited relatively higher Amyloid Aβ1–



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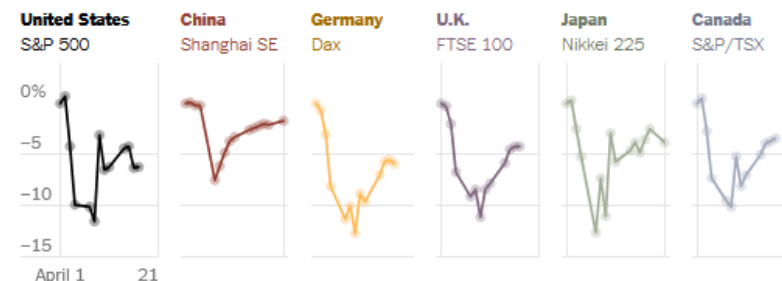


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#### World Stock Markets This Month



Notes: Data as of 3:30 a.m. Eastern on Monday. - Source: LSEG Data & Analytics - Karl Russell and Pablo Robles