

In Webisode 57DHYAFZXY [1 Collaborate on a novel cancer target discovery!](#) [2 United States](#) [3 California](#) [4 Colorado](#) [Feds Drop 2 hundred Million dollars to Swap the Gas Heat in Denver for Heat Pumps](#) [5 Florida](#) [6 Indiana](#) [New Tool Tracks Cross Border Pollution](#) [7 Maine and Minnesota](#) [8 Massachusetts](#) [In Boston the hazardous fine particles released into the air from wood burning make up a whopping 35 percent of overall pollution in the city](#) [9 Michigan](#) [Rashida Tlaib warns about the Trump rollback of PM 2 POINT 5 air quality standards](#) [10 North Carolina](#) [11 Vermont](#) [12 Washington](#) [13 Wisconsin](#) [14 United Kingdom](#) [15 China](#) [16 Thailand](#) [Main Content](#)

[1 Collaborate on a novel cancer target discovery!](#) I only honed in on the first 4 words of this opportunity that seemingly dropped into my lap out of nowhere I know novels use metaphors not scientific facts! I know the metaphorical cancer to collaborate on discovering a cure for! We need to discover the source! The Dump Cancer of choosing money in exchange for Dump evil actions is my chosen cancer to target! I think I know what the source is! We just need proof! The half million dollars from Abu Dhabi! I previously suspected the target was the Dump golden bloody hand eternally grasping for that last half million dollars! Speaking metaphorically of course until the facts are irrefutable which show there is a link between a bribe and handover of state secrets within computer chips! Already handed over? There is the missing link! Also Dump is the missing link between man and a less intelligent species! Not allowed to say that because apes in the form of Chimps have feelings too? Well the decline in intelligence is minimal And remember the morally superior Bonobo apes who live in peace and with love for their fellow Bonobos! And Gorillas are just nice vegetarians! Well Dump could be more derisively classified as the missing link between humans and monkeys which are decidedly not Great Apes! That last sentence could be a problem in terms of a lawsuit from a monkey! Science settled or at least metaphorical scientific sounding monkeying around settled which also could be the title of the experimental novel! First a correction Gorillas are not strictly vegetarians but they are predominantly herbivorous Their diet mainly consists of plants including leaves stems and fruits but they occasionally consume non plant items such as termites and ants Thus while the bulk of their diet is plant based they do not adhere to a strict vegetarian diet

[2A United States](#) [heat pump](#) [Americans want heat pumps](#) but high electricity prices may get in the way [The Conversation](#) Many homeowners could save money on their heating bills by installing heat pumps but not everyone and not everywhere [AI Overview](#) The desire for heat pumps among Americans is strong as they offer energy efficiency and lower carbon emissions However the rising cost of electricity poses a significant challenge In regions where electricity prices are high such as the Northeast homeowners may experience higher heating bills when switching to heat pumps This could lead to an increase of up to 12 hundred dollars per year in heating costs Despite this heat pumps are becoming increasingly popular with the US now the leading market for heat pumps outperforming furnaces in sales for three consecutive years The shift towards more efficient heating systems is driven by the increasing cost of energy not the other way around

[2B United States](#) [heat pump](#) [HVAC expert breaks down the magic that makes modern heat pumps unbelievably efficient](#) [Yahoo! Shopping](#) Homeowners can save hundreds of dollars on energy costs with the right heat pump or efficient HVAC [Mitsubishi can help you find efficient heating](#)

2C United States heat pump Tips to keep heating bills low during a cold snap YouTube Why Heat Pumps are now leaving people COLD Top 3 Heat Pump ISSUES in Winter! HVAC Guide for Homeowners

2D United States heat pump TCL Introduces Tiered All Inverter Ducted Heat Pump Platform for the US Market Yahoo Finance TCL one of the bestselling consumer electronics brands in the world today introduces its all inverter unitary ducted heat pump platforms developed

2E United States PM 2 POINT 5 Early to middle prenatal air pollution exposure lower offspring lung function linked Healio Satellite based models generated daily residential PM 2 POINT 5 nitrogen dioxide and temperature exposures during pregnancy according to the study **AI Overview** The study by Rosa and colleagues found that elevated fine particulate matter PM 2 POINT 5 and nitrogen dioxide exposure during mid gestation is associated with lower lung function measures in offspring aged 8 to 14 years The research indicates that the prenatal timeframe in which increased PM 2 POINT 5 exposure negatively impacts lung function measures depends on the lung function measure being assessed For example the link between PM 2 POINT 5 exposure and decreased FEV 1 z score was reported at gestational weeks 1 to 21 while the forced expiratory flow at 25 percent to 75 percent of vital capacity FEF 25 to 75 percent z score was assessed at weeks 1 to 20 This study provides compelling evidence that the timing of prenatal environmental exposures is critical with early to middle gestation representing a particularly vulnerable window for lung development

2F United States heat pump HVAC industry insiders make stark claim about the next wave of modern heat pumps Yahoo! Shopping According to a report from Air Conditioning Heating & Refrigeration News HVAC specialists do not believe the potential of heat pumps is lost

2G United States heat pump A Prototypical Silencer Resonator Concept Applied to a Heat Pump Mock Up MDPI Modern electrically operated heat pumps are characterized by a high degree of efficiency and represent an attractive alternative to conventional

2H United States PM 2 POINT 5 Short term effect of PM 2 POINT 5 exposure on pediatric neurological outpatient visits in Nature PM 2 POINT 5 exposure Data availability Ambient air quality data during the study period PM 2 POINT 5 PM10 O3 CO SO2 NO2 were obtained from the **AI Overview** The short term effect of PM 2 POINT 5 exposure on pediatric neurological outpatient visits has been studied revealing a significant correlation between PM 2 POINT 5 concentration and the overall count of pediatric outpatient visits for nervous system related issues A per IQR 75 point 2 microgram per cubic meter increase in PM 2 POINT 5 concentration over a 7 day period was associated with a 2 point 047 percent increase in the overall count of pediatric outpatient visits for nervous system related issues The impact of PM 2 POINT 5 exposure was more pronounced among girls or children aged less than 6 years and the adverse effects on nervous systems were more pronounced during the warm season This study highlights the importance of monitoring PM 2 POINT 5 levels and understanding its impact on pediatric neurological health

2i Burning Wood and A Warm Dog And Crashing The Environment Press Pros Magazine The best friend of man and one of the worst friends of man **AI Overview** the environmental impact of wood burning is significant **AI Overview** The combustion process releases harmful pollutants and

contributes to air pollution which can have serious health effects on individuals particularly children and the elderly. Additionally, the carbon dioxide released during wood combustion is not absorbed by new growth, leading to a net increase in atmospheric CO₂ which exacerbates global warming.

2j United States wood burning When Burning Wood Indoors May Be a Bigger Health Risk Than You Think Health Day Wood fires at home cause major winter air pollution and may lead to 86 hundred early deaths yearly wood burning The Burning Wood Indoors May Be a Bigger Health Risk Than You Think US News & World Report Researchers at Northwestern University found that home wood burning is responsible for about 22 percent of outdoor fine particle pollution PM_{2.5} during wood smoke compared to the citywide average. "While a lot of emissions from residential wood burning come from the suburbs, pollutants emitted **AI Overview** Burning wood indoors can pose significant health risks as it contributes to outdoor fine particle pollution PM_{2.5} during winter across the US. Despite only 2 percent of households using wood as their main heat source, residential wood burning is responsible for about 22 percent of PM_{2.5} pollution. This pollution can lead to serious health issues including heart disease, lung disease, and premature death. The study estimates that pollution from residential wood burning is tied to about 86 hundred premature deaths each year. Urban areas are particularly hard hit as smoke from wood burning in suburban homes often drifts into nearby cities, affecting residents even if they do not use fireplaces or wood stoves. The research suggests that reducing residential wood burning could significantly lower outdoor air pollution and improve public health outcomes.

2K United States heat pump rebate 7 Government Rebates That Do not Require Income Reduction Saving Advice The "HOMES" Rebate Performance Path · The 30 percent Solar Investment Credit · The Heat Pump Tax Credit 25C · The Geothermal Heating Credit · The Exterior

2L United States heat pump rebate Designing for 2026 EVs Heat Pumps and Why Old Solar Logic Fails Today Energy Matters If a system is sized to numbers from yesterday, it will often be undersized for the reality of tomorrow. Federal Battery Rebate free quotes Energy Matters

2M United States heat pump 3 Best Whole House Heat Pumps of 2026 Lab Tested and Reviewed Consumer Reports Heat pumps are typically two to four times more efficient than traditional electric resistance heating or oil furnaces. But savings depend on your

3A California wood smoke Avoid Wood Burning In Pass Area In Early February No Burn Alert Banning CA Patch Smoke from wood burning can cause health problems according to the AQMD. Fine particulate matter called PM_{2.5} can get deep into the lungs to **3B** California Los Angeles PM_{2.5} The Particulars of PM_{2.5} Clean Technica Likewise, PM_{2.5} is 2.5 microns or less across. Although particulate matter aggregates to form the ghostly haze that hangs over smoggy cities like Los **3C** California Modoc County wood smoke Modoc County Offers Financial Incentives to Replace Wood Burning Stoves for Cleaner Air Sierra Daily News dot com smoke and other pollutants to linger near ground level. The California Air Pollution Control Officers Association reports that smoke from wood burning **3D** California Pasadena wood burning and wood smoke Local Residents Included in Mandatory No Burn Order for West San Gabriel Valley on Monday Pasadena Now wood burning device and bans burning charcoal except in cooking devices. Particles in smoke can get deep into the lungs and cause health. The alert prohibits residents from

burning wood pellets or manufactured fire logs in any indoor or outdoor wood burning device and bans burning **3E** California Santa Clarita wood burning No Burn Day Alert Issued For Monday KHTS Radio The South Coast AQMD has issued a mandatory wood burning ban for Monday **3F** California Temecula Valley wood burning Avoid Wood Burning In Temecula Valley In Early February No Burn Alert Patch Smoke from wood burning can cause health problems according to the AQMD Fine particulate matter called PM 2 POINT 5 can get deep into the lungs to cause

4A Colorado heat pump rebate **Feds Drop 2 hundred Million dollars to Swap the Gas Heat in Denver for Heat Pumps** Hood line The DRCOG Power Ahead Colorado will use 1 hundred ninety nine point seven million dollars in EPA funds for rebates free home upgrades and training to electrify heating across the Denver **4B** Colorado heat pump rebate New program offers rebates for home and business owners who install heat pumps YouTube Colorado business owners and homeowners who install the heating and cooling system could be eligible for a rebate For video licensing inquiries **4C** Colorado heat pump rebate Polis Administration Announces Grant Awards to Support Climate Workforce Development Colorado gov heat pump technology training programs for new and existing HVAC technicians in Colorado Rebate program which saves Coloradans money on

5A Florida Dunnellon and Ocala wood burning UPDATE Creosote treated railroad ties fire now contained in Dunnellon Ocala Gazette burning railroad ties He said first responders saturated A fire involving these materials is not a standard wood fire Creosote **5B** Florida Dunnellon and Orlando wood smoke Dunnellon Fire Treated railroad ties burning in Marion County officials say FOX 35 Orlando Officials said the fire has been contained however smoke and odors may linger for a while due to the nature of the wood ties burning Video **5C** Florida Dunnellon and Orlando wood smoke Massive pile of train ties burns sending hazardous smoke over Dunnellon WFTV The fire involves wood treated with creosote which can emit toxins and heavy irritating smoke when burned Emergency workers are actively **5D** Florida Dunnellon and Tampa wood burning Dunnellon Fire Treated railroad ties burning in Marion County officials say FOX 13 Tampa Bay Officials warned that because the railroad ties have been treated with creosote an industrial wood preservative it can produce heavy irritating

6A Indiana Notre Dame PM 2 POINT 5 New Tool Tracks Cross Border Pollution Revealing Unequal Distribution of Risk Responsibility Newswise Deadly PM 2 POINT 5 air pollution that crosses state and national borders remains a serious global health issue New research from the University of Notre Dame **AI Overview** From the University of Notre Dame **a new tool tracks cross border pollution revealing the unequal distribution of risk across US states** The study published in Environmental Research Letters finds that 40 percent of premature deaths linked to PM 2 POINT 5 air pollution in the United States are caused by pollution that crosses state lines This finding highlights the impact of cross border pollution and the need for coordinated cross state action to protect vulnerable communities and promote environmental justice The tool provides a practical framework for identifying where pollution originates where it travels and which communities bear the health burden Policymakers can now use clear health risk data instead of relying solely on economic evaluations to assess responsibility for harmful pollution **6B** Indiana PM 2 POINT 5 New tool tracks cross border pollution revealing unequal distribution of risk responsibility Kroc Institute for International Peace Studies University of Notre Dame PM 2 POINT 5 pollution a type of fine particulate matter It comes amid renewed debate

over pollution regulations in the United States In January the Notre Dame News University of Notre Dame Deadly PM 2 POINT 5 air pollution that crosses state and national borders remains a serious global health issue New Notre Dame research provides a tool

7 Maine and Minnesota heat pump Why Some Cold States Are Making It Cheaper to Run a Heat Pump The New York Times New discounts can make heat pumps go from a bad investment to a good idea Why Some Cold States Are Making It Cheaper to Run a Heat Pump Cold states are lowering heat pump costs through winter specific electricity rates efficiency improvements and government incentives making them more affordable even in freezing temperatures Many cold states are introducing reduced winter electricity rates to make heat pumps more economical Utilities in states like Minnesota cut electricity rates by up to 35 percent during winter which aligns with the lower grid costs in colder months and encourages heat pump adoption without raising household bills In Maine heat pumps already reduce annual utility costs for most homes while in Colorado a similar winter rate could make heat pumps cost neutral compared to traditional heating systems These rate structures help households avoid overpaying for electricity during periods of high heating demand and make heat pumps financially competitive with fossil fuel heating Modern cold climate heat pumps CCHPs are designed to operate efficiently in subfreezing temperatures often down to 5 degrees Fahrenheit or lower They use variable speed compressors enhanced refrigerants and advanced controls to maintain heating capacity even in extreme cold Many models can deliver at least 70 percent of their rated heating capacity at 5 degrees Fahrenheit and some operate efficiently below 20 degrees Fahrenheit Dual fuel setups which pair heat pumps with gas furnaces provide reliable backup for extreme conditions ensuring consistent warmth without excessive electricity use Heat pumps transfer heat rather than generate it making them 3 to 5 times more efficient than traditional electric resistance heaters Air source heat pumps can reduce household heating energy use by 30 to 50 percent compared to fossil based systems and up to 75 percent relative to inefficient electric systems Efficiency depends on the Heating Seasonal Performance Factor HSPF and Coefficient of Performance COP with higher ratings lowering electricity consumption Proper home insulation smart thermostats and zoning can further reduce operating costs Federal and state programs including the Inflation Reduction Act provide tax credits and rebates for high efficiency heat pumps Homeowners can receive up to 2 thousand dollars in federal tax credits with additional rebates for low and moderate income households significantly reducing upfront costs Some utilities also offer discounts or time of use rates specifically for heat pump customers further improving affordability While heat pumps are cost effective for homes using oil propane or electric resistance heating households relying on natural gas may see smaller savings unless they invest in high efficiency models Cold climate heat pumps are particularly beneficial in northern states like Minnesota Maine and parts of the Northeast where they can replace less efficient heating systems and reduce both energy bills and carbon emissions By combining winter specific electricity rates advanced cold climate heat pump technology efficiency measures and financial incentives cold states are making heat pumps a viable and cost effective heating option These measures help homeowners save on energy bills reduce greenhouse gas emissions and transition away from fossil fuels even in harsh winter climates

8A Massachusetts Boston heat pump Heat pumps Do they work? And what about the bills? Here is what readers had to say The Boston Globe Heat pumps come in many shapes and sizes and can be used as the sole source of heat or in tandem with other sources like natural gas or a fireplace

8B Massachusetts Boston wood burning Study Wood smoke makes up more than third of the air pollution of Boston in the winter WBUR **In Boston the hazardous fine particles released into the air from wood burning make up a whopping 35 percent of overall pollution in the city** the study Researchers at Northwestern University released a study last week that found far more wood smoke from rural areas gets blown into cities during

9 Michigan Detroit PM 2 POINT 5 The Trump EPA challenges the Biden PM 2 POINT 5 air quality standard Planet Detroit Environmental health advocates and US Representative **Rashida Tlaib warns about the Trump rollback of PM 2 POINT 5 air quality standards** 10A North Carolina Cumberland County Fayetteville heat pump rebate Energy rebate program helps Cumberland County families lower utility bills Biz Fayetteville Greater Fayetteville Business Journal The HEAR program covers up to 14 thousand dollars for high efficiency electrical appliances like heat pump water heaters and electric stoves According to the 10B North Carolina Rowan County heat pump rebate Energy Saver NC now available in Rowan County helping eligible families save Salisbury Post Home Electrification and Appliance Rebates HEAR Provides up to 14 thousand dollars for high efficiency electrical appliances such as heat pump water heaters 10C North Carolina Wake County heat pump rebate New Energy Saver NC rebates now open to Wake County residents The Wake Weekly Wake County residents can now apply for Energy Saver NC rebates offering income based assistance for home efficiency upgrades like heat pumps 11 Vermont heat pump rebate Efficiency Vermont announces 2026 rebates and incentives Williston Observer rebate or get 6 thousand dollars off central wood heating systems You can also get up to 4 hundred dollars off a heat pump clothes dryer or washer and heat pump dryer combo 12A Washington Burien heat pump rebate City of Burien offering up to 25 hundred dollar rebates for home electrification and efficiency upgrades The B Town Burien Blog Eligible projects include heat pumps for home heating induction stoves conversions from gas to electric stoves heat pump water heaters heat pump 12B Washington Seattle heat pump Americans want heat pumps – but high electricity prices may get in the way Seattle PI We found that for households currently using oil propane or other forms of electric heating that are not heat pumps such as electric furnaces or baseboard heaters 13A Wisconsin Green Bay wood smoke Public reminded of wood burning stove safety following fire in Brussels WFRV Fire officials are reminding the public on how to properly clean out wood burning stoves following a house fire early Monday morning in the Town of Brussels 13B Wisconsin Oshkosh wood smoke Public reminded of wood burning stove safety following fire in Brussels YouTube Public reminded of wood burning stove safety following fire in Brussels WFRV Local 5 **AI Overview** The recent fire in Brussels serves as a reminder for the public to follow proper safety procedures when dealing with wood burning stoves The fire occurred early Monday morning and the Brussels Union Gardner Fire Department responded to a structure fire with active flames and smoke from the back porch The fire was confirmed to be from the ground level of the home to the peak of the roof and the damage was contained to the exterior of the home along with a second story bedroom and the attic space above that room **The homeowner had cleaned out a pellet stove the day before and had discarded the ashes into a plastic container that was left outside** The fire was extinguished using a high pressure suppression system and the scene was cleared by BUG Fire with assistance from **multiple fire departments** The fire highlights the importance of proper stove maintenance and **the dangers of improper disposal of wood burning stove ashes** The public is reminded to always place ashes in a metal

container with a lid and douse them with water to ensure they are cool and cannot reignite. This practice helps prevent potential fire hazards and ensures the safety of the home and its occupants. **14B** Wisconsin wood burning. Public reminded of wood burning stove safety following fire in Brussels. YouTube. Public reminded of wood burning stove safety following fire in Brussels. WFRV Local 5.

14A United Kingdom. Oxford. PM 2 POINT 5. Long term exposure to wildfire smoke particulate matter and incident stroke a US nationwide study. Oxford Academic. Oxford University Press. Wildfire smoke is a growing public health concern particularly due to its high fine particulate matter PM 2 POINT 5 concentrations. **14B** United Kingdom. heat pump. How having a heat pump can really backfire. The Times. Homeowners who were sold heat pumps with the promise of cheaper bills plus a clearer conscience are finding that their energy costs have. While **heat pumps offer energy efficiency and environmental benefits** they can also present significant drawbacks including high installation costs performance issues in cold weather and vulnerability to power outages. **AI Overview** Key Drawbacks of Heat Pumps. High Installation Costs. Installing a heat pump can be expensive often costing upwards of 15 thousand dollars depending on the type and complexity of the installation. This initial investment can be a significant barrier for many homeowners. Space Requirements. Heat pumps require adequate outdoor space for installation needing at least two feet of unobstructed airflow around the unit. Performance in Cold Weather. Standard heat pumps may struggle in extremely cold temperatures leading to reduced efficiency or even complete failure in harsh winter conditions. **While some models are designed for colder climates** they may still not perform optimally when temperatures drop significantly. Power Outages. Heat pumps rely on electricity to operate making them vulnerable during power outages. In regions prone to winter storms this can leave homeowners without heat when they need it most. Backup heating sources such as space heaters or dual fuel systems may be necessary which can increase overall heating costs. Electricity Costs. Although heat pumps are generally more efficient than gas boilers the current high cost of electricity can negate these savings. **In the UK for example electricity prices are significantly higher than gas prices** which can lead to increased heating bills despite the efficiency of heat pumps. Market and Policy Challenges. The effectiveness of heat pumps is also influenced by the broader energy market. **Without reforms to address the disparity between gas and electricity prices households may face higher bills and risks associated with heat pump reliance**. While heat pumps can be a sustainable and efficient heating solution potential buyers should carefully consider these drawbacks. Understanding the costs installation requirements and performance limitations is crucial for making an informed decision about whether a heat pump is the right choice for your home. **15** China. PM 2 POINT 5. Inequality in PM 2 POINT 5. Exposure and Health burden attributable in China. npj Climate Action. Nature. PM 2 POINT 5. pollution poses significant health risks in China with over one million premature deaths annually. Although major air quality regulations **16** Thailand. PM 2 POINT 5. Bangkok faces health risks as PM 2 POINT 5 levels surge across all districts. Asia News Network. The highest levels were recorded in the northern areas with dust particles reaching 45 to 54 point 1 micrograms per cubic meter affecting respiratory health. The average PM 2 POINT 5