

Webisode 57DHXYG October 7 2025 Wood burners are bad for you Here is why you did not notice

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0 point 1 Democrats Still Have No Idea What Went Wrong The party progressives seem to think the problem is not with their platform but with voters [RAWSEP View](#) I do not recognize the political orientation of the Nation Magazine This writer may be the resident Conservative slash Republican Every Friday on PBS the editor of the Nation discusses the political events of the week with a panel of journalists who generally recognize that Trump and his Party are governing in a dictatorial militaristic way led by the whims of a recognizably stupid individual who cozies up to Putin Orban and other dictators in a way traitorous to United States interests If the Democratic Party is interested in winning elections against Republicans Democrats should be confident that the Democratic Party represents Democracy a Social Safety Net that protects economic justice and social equity and which created programs which [mitigated Air Pollution](#) and Climate Change in order to [protect human health](#) and the health of the planet That can also be summed up as it was in the article as a Democratic Party that should inspire and mobilize communities to advance economic justice social equity [climate action](#) and protect our democracy What is not to like about that? If Democrats were suddenly not thinking of those aims I would think they were trying to emulate the Republican Party and irrationally trying to emulate stupid cruel and economically unsuccessful policies A Democratic political party should represent all economic groups in a society and the Democratic Party does The Republican Party is a party for billionaires and those who delude themselves that becoming a billionaire is just around the corner except now they work a low wage job In that way the problem is the voter who does not recognize his own economic interests yet Perhaps the Democratic Party should spend 80 percent of their time making the economic argument that they are for all economic classes but 20 percent of their time should be spent working to mitigate climate change and thus saving the health and lives of the people of America

[Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke](#)

Emission Particulates a 501C3 nonprofit organization The Nation October 7 2025 Today On a recent panel of progressive activists analyzing what went wrong in the 2024 election the author activist and failed political candidate Qasim Rashid spoke with confidence about the way forward for the Democratic Party The problem he insisted was not that Democrats had strayed too far from public opinion but that the party had grown too solicitous of it Saying the right thing timidly he proclaimed is less effective than saying the wrong thing loudly The Rashid argument was anything but timid and it certainly played well in the Washington DC room where the progressive donor network Way to Win was holding a confab called Persuasion 2025 Yet Rashid meant for this event to be more than just a pep talk among allies His call for a confident undiluted progressive platform is how you see people flip red seats to blue he said The Rashid track record as a candidate does not quite bear out this confident assessment He has run for office three times falling short every time In 2020 he lost his race for Congress by 16 points in a district Joe Biden lost by four He went on to found a firm specializing in relational messaging to inspire and mobilize communities to advance economic justice social equity **climate action** and protect our democracy It is called unironically Just Win The purpose of this conference was to reassert the strategy of the Left for regaining control of the Democratic Party and at least in theory a national governing majority Yet beneath the bold proclamations one could detect an undercurrent of defensiveness After almost a decade of nearly unchallenged supremacy the progressive movement hold on the Democratic party is no longer certain

0 point 2 **RAWSEP View** Greed or at least a primary interest in making money from the energy business whether clean energy or dirty energy whether it hurts human health or not is the dominant theme of these news stories 1 In France Total Energies owner of a series of successful natural gas power plants is expanding into battery storage for renewable energy In the case of Total Energies the clean energy is wind or solar the clean renewable energies But Total Energies still keeps its hand in fossil fuel energy of natural gas although natural gas is the cleanest fossil fuel to burn To take a brief break from that type of greed in the energy sector in the second story 2 RFK Junior and his close associates Casey and Calley Means a brother and sister duo who wish to profit from the MAHA movement have a method to their madness of denying vaccines to the American people dismantling scientific and medical research shutting down rural hospitals and spreading disinformation in hopes it will help Trumpism win elections The second very personal aim of Casey and Calley Means is to send federal money into Health Savings Accounts of the people who have disposable income the rich for quack medical supposed cures to resurgences of ancient illnesses and resurgences of new pandemics caused by MAHA denial of vaccines and resurgences of everyday sickness caused by MAHA fueled discontinuation of scientific and medical research on medical cures Casey Means is the head of True Med which is a corporation that is not truthful in its medical and scientific claims and does not cure illnesses while curing illness is a tenet of medicine at least that taught in Medical School with the motto First do no Harm in the modern age 3 With Headlines we are back to Greed in pursuing dirty energy for profit 3A World Science and Medicine Nature **RAWSEP View** A scientist is interested in the natural world and presumably would like to mitigate Climate Change 3B United States Movie Bro Culture **RAWSEP View** Is this Bro culture found in this movie palatable to non Bros? These Bros resemble Democrats of 2025 Is there hope for Bros even these movie star Bros? 3C United States Trump versus Mitigation of Air Pollution from Indoor Residential Wood Burning and Trump versus mitigation of Air Pollution from Industrial Wood Burning **RAWSEP View** As part of an economically irrational plan Trump plots more logging in US

forests 3D United States Lawsuit over Solar Funding Denial [RAWSEP View](#) As part of an economically irrational plan Trump plots to take solar power away from poor and middle class Americans

3E United States Coal Burning is no longer economical and Coal Burning contribution to Air Pollution and Coal burning contribution to enhancing Climate Change [RAWSEP View](#) As part of an economically irrational plan Trump plots to reopen already closed air polluting coal plants in America

3F Maryland Lawsuit over Climate Change [RAWSEP View](#) As part of an economically irrational plan Trump plots to reinvigorate air pollution in cities across America

3G Climate Change Mitigation Science [RAWSEP View](#) As part of an economically irrational plan Trump plots to deny further funding leading to new scientific ideas culled from nature about how to mitigate climate change in America

3H California Paradise Movie about Paradise Wildfire [RAWSEP View](#) A review of a movie about the real life adverse effects of air pollution from wood burning

3i South Carolina [RAWSEP View](#) The house of a Judge viewed as Trump Enemy is burned down RAWSEP mourns the air pollution from the wood burning as well as mourns the Trump plotting to evade justice from the courts

3j United Kingdom [RAWSEP View](#) In the UK as well as the US there are concerns about the effect of unnecessary air pollution from radiation caused by predictable human error when operating any Nuclear Plant For that reason Nuclear Energy cannot be truly called Clean Energy And again back to Greed while pursuing dirty energy generation

4 4D California San Francisco Wealthy San Francisco residents outraged by trendy new wood fired grill restaurant

4E United Kingdom [RAWSEP View](#) The editor of RAWSEP believes that this is misinformation or disinformation put out to farmers in the United Kingdom that Heat Pumps are expensive is deliberate and possibly put out by the fossil fuel industry and the wood burning industry The UK Government is providing financial incentives to make Heat Pumps affordable for everyone And as usual the fixation on economic arguments even if those economic arguments are not true convinces some that these economic arguments are practical and based on reality How about starting a discussion with true facts about negative health effects and early deaths? That would be hard for even hardened farmers to hear but that would start a discussion with the truth about indoor residential wood burning for home heating Insulation of homes whether in rural areas or urban areas should be a given If there is not adequate insulation the homeowner should get it Heat Pumps do not require additional insulation but from a practical point of view adequate insulation should be looked into Insulation does not break the bank Any home with walls is insulated against the elements including the cold United Kingdom dwellings have a reputation of not being well insulated at least in comparison with United States homes since many homes still being used in the United Kingdom are hundreds of years old [Alternative renewable fuels is probably a code word for wood fired stoves since fossil fuels are not renewable](#) [So this appears to be false advertising for the wood burning industry in the United Kingdom](#) The air pollution adverse health effects of burning wood are not mentioned in this article Wood burning emits 2 point 8 times the PM2 point 5 as coal burning Wood burning emits 450 times the PM 2 point 5 as the fossil fuel natural gas burning This data comes from testing the cleanest burning wood stove in the UK the Eco Design wood stove To address the economic argument as mentioned before the UK government provides financial incentives for purchasing Heat Pumps that in 2025 work down to 40 degrees below zero double as air conditioners and lower monthly electric bills immediately and finally

4H Europe Indoor Wood Burning in Affluent Areas Problematic for Lung Health [Main Content](#)

1 France Total Energies plant has gas fired power plants Total Energies now has a battery farm in Dunkirk France [French Energy Giant Sees Opportunity in the Volatile Electricity Market](#) [Excerpts](#)

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The New York Times A writer visited a battery farm in Dunkirk France October 7 2025 Early in the 2020s TotalEnergies installed more than two dozen industrial scale batteries on a strip alongside the rusting tanks and pipes of a former gas fired power plant Some longstanding refinery employees now make the rounds at the battery farm making sure the devices are functioning properly The batteries are connected to the power grid They kick in with almost instant bursts of electricity when needed such as when a nearby aluminum plant a huge consumer of power fires up Every time a large industrial company starts a machine the grid goes down so you need more power on it Although it is still mainly an oil and gas producer TotalEnergies views batteries as an attractive investment that can profit from the tectonic changes that are occurring in the electricity field TotalEnergies is an outlier among big oil and gas producers which have shied away or pulled back from investing in renewable electricity wary of tight regulation and lackluster profits But TotalEnergies is aiming to invest up to 4 billion dollars a year in electric power calculating that it can be lucrative with the right approach The goal is to double the share of electricity in the energy output in the Company to around 20 percent by the end of the decade The French giant figures that it can profit by helping clients and grid operators adapt to changes hitting the power markets We try to target the markets that have strong potential It means that they have growth and volatility The Dunkirk unit is concentrating on Britain Germany and Texas along with France Demand for power is expected to surge in the coming years because of increased consumption by electric vehicles data centers and other sources The growing number of wind and solar farms whose output fluctuates with the breeze and sunlight is helping to create large swings in the availability of power The more renewables you have the more volatility you have For example in March German electricity prices went from zero euros per megawatt hour at noon when solar energy peaked to 165 euros per megawatt hour at 6 p m when renewable energy dropped off according to TotalEnergies The gas turbine inside the Toul power plant can rev up in as little as a half hour depending on circumstances At the same time coal and some gas fired generating plants are closing down reducing pollution but also removing what has been a stabilizing influence on the power grid The turbines at the core of these plants also provide a rotating force known as inertia that helps regulate the grid at times of fluctuation Batteries can perform this function only when paired with special equipment The rapid growth of renewable energy especially solar power also formed the backdrop of a major blackout that paralyzed Spain and Portugal in April The grid has become increasingly complex to manage the incident was likely to lead to greater demand and higher revenue for grid management services from batteries These Batteries can earn money in several ways Grid operators pay battery owners to respond to short term system imbalances The devices can also be used in arbitrage taking power from the grid to charge when electricity prices are low and pumping it out when they are higher By sucking up surplus output from for example solar farms during the day and then discharging that power later batteries help to balance the presence of renewables on the grid Otherwise the solar power would need to be disconnected What we see in Europe is quite a boom in battery projects She estimated that energy providers spent 7 point 3 billion Euros on batteries in 2024 and forecast that battery capacity in Europe would increase around fivefold by the end of the decade Unlike other alternative energy technologies that are often encouraged by subsidies batteries just get built because the expected revenue that they can make is so high Batteries could earn hefty profits in the mid double digits Batteries are useful for quick responses Every second we can be called to regulate the grid Batteries shift

from charging to discharging frequently during the day. But the batteries at Dunkirk can fire into the grid for only an hour. So TotalEnergies uses gas fired power plants when more electricity is needed over longer periods such as frigid spells that stoke demand for heat. The power station can start up in a half hour in some circumstances and there are few limits on how long it can operate. It can also generate far more electricity than the batteries at Dunkirk. The crew of the plant of around 30 employees keep it on constant standby waiting for a request to fire up from RTE the national transmission operator. Failure to come through can result in fines. The Toul unit ran frequently in 2022 when there were unusual outages at the nuclear plants that dominate French power generation. More recently the facility has seen low use as the aftershocks from the energy crisis of Europe have reduced industrial activity. It is a more depressed market that we have currently. But past years have shown it can change quite rapidly.

2. RFK Junior **RAWSEP View** Lack of scientific and medical credibility along with tax breaks for the rich at the expense of a healthcare safety net and access to vaccines for the poor and middle class is the modus operandi of RFK Junior. **From the article headline** **The real goal of Make America Healthy Again: Woo wu treatments for the rich shrinking healthcare for the poor** Alexander Avila The Guardian. The real goal of Make America Healthy Again? Woo wu treatments for the rich shrinking healthcare for the poor Alexander Avila. A new coterie of advisers around RFK Junior is shaping the already exclusionary health system of the US for the worse. **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization** The Guardian October 6 2025. The Trump Make America Healthy Again or Maha with its central figurehead US health secretary RFK Junior has cancelled 500 million dollars of vaccine research fired thousands of health agency workers and promoted an unsubstantiated link between Tylenol and autism. **But what underlying vision ties the Maha project together?** Its fundamental claims quickly devolves into a mistrust of vaccines health institutions and mainstream medical treatments. The Maha attracts concerned mothers conspiratorial health food CEOs conservative social critics and alternative medicine practitioners. One of the central architects of the movement is Calley Means current special government employee at the Department of Health and Human Services HHS and direct advisor to RFK Jr. A close friend of the RFK Junior. The Calley Means political debut came in 2024 when he and his sister Casey Means an author of the bestselling health and wellness book Good Energy and promoted it to right leaning audiences on The Tucker Carlson Show and The Joe Rogan Experience. Together the Means siblings built and spread the Maha message to millions of rightwing listeners. The siblings pair their work with a carefully calibrated backstory. Calley tells stories of corruption from his time as a former lobbyist for the food and pharmaceutical industry. Casey a Stanford trained physician retired from the medical profession feeling disillusioned with its profit driven and overspecialized approach to health. They tout their former insider status as proof of their populist credentials a strategy so effective that it landed them insider positions in the Trump administration as previously mentioned Calley as an adviser at the US health department and Casey as The Trump nominee for surgeon general. The siblings are set to become some of the most powerful figures in American health. But if you as Maha evangelists say do your own research you will find that Vanity Fair reported that **Calley Means has never registered as a lobbyist in the US and that former employers dispute him ever having worked for food and pharmaceutical clients**. In response Calley Means said I stand by everything I have said. Meanwhile in the LA Times and Vanity Fair former colleagues of Casey have suggested that **her departure from medicine was motivated more by stress than disillusionment**. But perhaps misrepresenting parts of your backstory is simply a part of the

growing pains of building a new political movement. So what do these public health newcomers offer in terms of concrete policy? In interviews, Calley often repeats a rhetorical question: why should we work to increase healthcare access if we know that **the system is broken?** Instead, he argues Americans should focus on holistic root causes of ill health, which is why he was a founder of TrueMed, a platform connecting tax-free health savings account (HSA) owners with a marketplace of wellness products. Visit the TrueMed website and **his intended audience becomes clear: Americans who shop for 1000 dollar cold plunge baths, five figure personal saunas, and flashy Peloton bikes.** As Calley candidly explained on a podcast, the TrueMed ultimate goal is to redirect every cent of the 4.5 trillion dollars the US spends on programs subsidizing the healthcare of poor and elderly people into accounts like HSAs for people to spend at their discretion on mainstream and wellness medicine. The latter marketplace is hardly a fringe cottage industry. It represents a 6.3 trillion dollar global wellness sector, a loosely defined and largely unregulated industry of brands and influencers promoting a state of holistic health. Calley is deeply invested in the flourishing of the wellness industry. His sister, Casey, similarly has roots in the wellness industry where she started with a popular newsletter and podcast that grew into a multimillion dollar health wearables startup, Levels. As agents of the Maha cause, Calley and Casey are not just using their new national platform to promote their own businesses. **They are turning Maha into the new business plan of the wellness industry.** So far, the Trump administration is putting pieces of that plan into place. The recently passed Big Beautiful Bill includes provisions to **expand HSA use**, directly benefitting Calley, TrueMed, and the wellness sector at the expense of taxpayers. More consequential in the bill are the **1 trillion dollars in Medicaid and Medicare cuts, which not only slashes coverage for poor and elderly people but also strips funding from rural hospitals, community health centers, and nursing homes.** Maha likes to frame itself as the David to the Goliath of big pharma. But the pharmaceutical industry, 1.6 trillion dollar global valuation, pales in comparison to the wellness industry, 6.3 trillion dollars. **When we begin to understand Maha as simply another Goliath, its most nonsensical positions suddenly seem very sensible.** The RFK Jr.'s sudden embrace of **digital health wearables**, despite once calling them tools for surveillance, makes sense knowing that Maha superstar Casey, a founder of a health wearables company, it makes sense that **none of the Maha figureheads opposed The Trump cuts to healthy school lunch programs** or his subsidies for the commodity crops that fuel the over-processed food industry. It makes sense that Calley and his wellness entrepreneur friends can launch an organization called End Chronic Disease to push HSA expansion **even as Trump cuts billions of dollars for chronic disease research.** When Calley attempts to rhetorically justify cuts to Medicaid and Medicare by asking, "Why provide more access to a broken system?" he touches on the Maha central contradiction: **For those of a certain socioeconomic class, American healthcare is not broken.** After all, there is a reason **why Saudi royals frequently seek medical care in the US** or why the US attracts a nearly 8 billion dollar medical tourism market. What is broken is the American healthcare system, the **inherent injustice of subjecting human rights to the logic of private markets.** Americans need more access to a broken system when lack of access is the essence of its brokenness. **But if Maha were to address this problem in any meaningful way, it would cease to exist.** By instead making the problem worse by funneling public money into the private hands of the wellness industry and exacerbating the healthcare disparities that produce systemic rage, **Maha will always have something to complain about**, a message for those who are suffering and customers to sell it to. But **the problem with a gift that deals in life and death is that actually, you may not always have customers.** If Maha successfully decimates public

health spending at a time when Americans face in the Calley words almost genocidal levels of chronic disease among children [who will survive to buy what Maha sells next?](#) When the Maha Trump health spending cuts [close the last rural hospitals and clinics](#) in the very counties that voted for him the future of American public health may depend on [whether these communities reach the ballot box before the grave](#)

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Movie One Bladder After Another why bros are finally having to queue for the loo Emma Beddington
The Guardian Movies Daniel Day Lewis is cross that people equate method acting with behaving like a
lunatic That is exactly why we love it Movies The Guardian Music Should I pay heed to this Swift
dismissal Taylor Swift The Guardian Oregon Trump Military Republicans post fake image of
Oregon protest – using photos of South America Portland The Guardian RFK Junior RAWSEP View
Lack of scientific and medical credibility along with tax breaks for the rich at the expense of a healthcare
safety net and access to vaccines for the poor and middle class and the rich as well From the article
headline The real goal of Make America Healthy Again Woo wu treatments for the rich shrinking
healthcare for the poor Alexander Avila The Guardian RFK Junior Republicans Conspiracy
Theories which may be monetized to benefit MAHA founders Calley and Casey Means Definition of woo
wu RAWSEP View Is woo wu a pejorative term used about Republican conspiracy theories applied to
everyday life? From the article headline Cycle tracking is not woo wu or a tradwife tool It is essential
education for everyone no matter the gender Freya Bennett Excerpts edited by RAWSEP for brevity and
clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit
organization The Guardian woo wu RAWSEP was right! Woo wu is a derogatory and informal noun or
adjective It means 1 as a noun unconventional beliefs regarded as having little or no scientific basis
especially those relating to spirituality mysticism or alternative medicine some kind of metaphysical
woo wu It means 2 as an adjective woo wu relating to or holding unconventional beliefs regarded as
having little or no scientific basis especially those relating to spirituality mysticism or alternative
medicine quartz crystals that were so popular with the woo wu crowd AI Overview Cycle tracking
refers to the process of monitoring and recording various aspects of a the menstrual cycle of a person
typically with the goal of understanding fertility predicting ovulation and or preventing pregnancy
Limitations of Cycle Tracking Accuracy Not all methods are equally reliable especially for individuals with
irregular cycles Requires commitment Consistent tracking is essential for accurate results May not be
suitable for everyone People with certain medical conditions or those taking certain medications may not
be able to use cycle tracking effectively It is important to note that cycle tracking is a tool that can be
helpful but it is not a substitute for medical advice If you have any concerns about your menstrual cycle
or fertility it is recommended to consult with a healthcare professional RAWSEP was right! Cycle
tracking will probably be monetized by the MAHA crowd and be compensated by health savings accounts
of the rich! South Carolina Judge who Trump considers an enemy Fire engulfs home of South
Carolina judge who had received death threats US politics The Guardian Supreme Court Christian
group deceived supreme court about LGBTQ+ research cited scholars say US supreme court The
Guardian Supreme Court US supreme court begins new term with the democratic governance of
America at stake US supreme court The Guardian Texas Trump Military Texas national guard
troops head to Illinois after judge fails to block move US immigration The Guardian Trump Air
Pollution Assistance Outcry as Trump plots more roads and logging in US forests You can almost hear
the chain saws Virginia The Guardian Trump Billionaires Boom time for US billionaires why the
system perpetuates wealth inequality The super rich The Guardian Trump Military Trump threatens
to invoke Insurrection Act as Bondi faces Senate – US politics live Trump Military What to know about
The Trump national guard deployment from rulings to protests Trump administration The Guardian
Trump Tariffs Supreme Court Tariffs conversion therapy and mail ballots key US supreme court cases
to watch this term US supreme court The Guardian Canada Nature Marine park threatens to

ethanize 30 whales if Canada does not provide funding Canada The Guardian Brazil Lula the president of Brazil asks US to scrap tariffs in friendly call with Trump Brazil The Guardian [AI overview](#)
The current president of Brazil Luiz Inácio Lula da Silva is known by his widely used nickname Lula The nickname Lula is a common affectionate name for Luiz in Brazil He formally added the nickname to his legal name in 1982 The term Lula is also the Portuguese word for squid Venezuela on edge over Trump regime change whispers If it does happen we are ready Venezuela The Guardian United Kingdom Labor Party A united Labor party is making Britain work better for all We cannot allow our mission to be disrupted Bridget Phillipson The Guardian [United Kingdom Nuclear Radiation Air Pollution It is Sellafield or nothing what life is like growing up in the shadow of the oldest nuclear site in Europe Young people](#) The Guardian United Kingdom Possible Racism Badenoch defends the Jenrick no white faces comments about Birmingham Kemi Badenoch The Guardian France A paroxysm of disposability The distaste of France for the Shein fast fashion Shein The Guardian France is in crisis but bond markets leave other governments at risk of meltdown too Economics The Guardian France French PM in final bid to salvage cabinet amid political turmoil Europe live France Macron should announce early election says former PM as the political crisis in France deepens France The Guardian France What happened on a chaotic day in French politics and what next France The Guardian Ukraine war briefing Trump says he would want to know the Kyiv plans for Tomahawk missiles before supplying them Ukraine The Guardian Israel Israelis gather to mark two years since 7 October Hamas attack that killed 1200 Israel The Guardian India Fast fashion recycling how the castoff capital of the world is making Indian factory workers sick Global development The Guardian

[4 Google Alerts October 6 2025](#) 4A United States PM 2 POINT 5 Why is Smoke a Health Concern? US EPA Environmental Protection Agency EPA [Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization](#)
Wildfire smoke contains PM 2 POINT 5 that can be easily inhaled and lead to a range of health effects that have been well established by decades of Smoke is a health concern due to its composition as a complex mixture of gases and fine particles produced when wood and other organic materials burn The biggest health threat from smoke is from fine particles which can penetrate deep into the lungs and cause a range of health problems from burning eyes and a runny nose to aggravated chronic heart and lung diseases Exposure to particle pollution is even linked to premature death It is especially important for individuals with heart or lung disease older adults children and people with diabetes to pay attention to local air quality reports during a fire U S Environmental Protection Agency United States PM 2 POINT 5 Long term exposures to PM 2 POINT 5 components increase the breast cancer mortality in the BMC Cancer BioMed Central PM 2 POINT 5 refers to fine particulate matter with An aerodynamic diameter less or equal to 2 point 5 micrometers which is an essential component of air United States PM 2 POINT 5 Climate change and increased risk of respiratory infections in humans PMC National Institutes of Health NIH dot gov Climate change exacerbates air pollution through the accumulation of greenhouse gases and fine particulate matter PM 2 POINT 5 and PM10 respectively both United States [4 Best Heat Pumps of 2025 According to Testing](#) [Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization](#) Good Housekeeping This technology has SO MUCH upside For starters installing a heat pump is one of the most efficient ways to heat and cool your house that is right AI Overview For a combination of cutting edge features quiet operation and high efficiency the Trane Tru Comfort 20

stands out while the Friedrich Breeze Universal offers excellent value with high efficiency and a compact design. The Carrier Infinity Series is ideal for extreme cold climates delivering consistent comfort and the Daikin Fit is a strong choice for a high quality quiet inverter system. For Advanced Performance & Smart Features, Trane Tru Comfort 20 Pros Award winning innovation delivers precision climate control with variable speed tech excellent cold climate performance and integrates with smart home systems for remote monitoring and diagnostics. Cons Premium price point. For High Efficiency & Value Friedrich Breeze Universal Pros High SEER2 rating for significant energy savings inverter technology for quiet operation and precise control compact design and eligibility for tax credits. Cons May require professional installation. For Extreme Cold Climates Carrier Infinity Series Pros Exceptional cold climate heating performance providing up to 100 percent heating capacity in subzero temperatures. Cons High efficiency models come with a premium price. For Quiet Operation & Inverter Technology Daikin Fit Pros Operates very quietly ideal for homeowners seeking minimal noise disturbance and utilizes inverter technology for smooth and efficient operation. Cons Availability may be limited to certain regions.

United States American Lung Association report reveals which promising tech could prevent The Cool Down Upgrading to a heat pump will tackle both of those problems. Rather than generating heat a heat pumps simply transfer heat in the air from one place to The American Lung Association found in its study that if manufacturers switched to heat pumps for their heating needs it would have an incredibly positive effect on the health of Americans. 4B United States Swap your boiler for a money saving heat pump Popular Science Heat pumps date back to the 1850s and are more energy efficient than furnaces or boilers. Image Schon via Getty Images Get the Popular Science daily Swap your boiler for a money saving heat pump Heat pumps can save you about 370 dollars per year and are good for the planet. Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization

Popular Science October 2 2025 Colder weather is quickly approaching which means it is time for many folks to start cranking up the heat in their homes and apartments. But for many Americans heating up their homes is a costly affair—and it is only getting more expensive. New research from the National Energy Assistance Directors Association NEADA estimates that prices for heating a home will increase by about 7 point 6 percent from the 2024 winter heating average. One often touted way to slim down your energy usage is switching to a heat pump instead of using an old fashioned furnace or boiler. This swap can be very cost effective saving about 370 dollars per year the costs continue to drop over time but the key is to start thinking about how realistic it is to get a heat pump in your home now even if your HVAC is in perfect shape. If your heating system dies in the middle of the winter you are not going to spend three weeks getting the right contractors. I would recommend that people spend a little bit of time thinking of what they want to do in the future with their home. United States Homeowner shares candid review after installing heat pump HVAC in sweltering garage The Cool Down Minimize you are the energy costs of your home by using a heat pump this video shows how one family keeps their garage at the perfect temperature for free. Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization AI Overview A homeowner installed a ductless mini split heat pump in their hot garage using solar power to run the system and shared a positive review highlighting year round comfort and significant energy savings even during the summer. The system was powered entirely by solar panels and battery storage resulting in zero electricity costs for the heating and cooling needs for the garage. Key Benefits Year Round

Comfort The heat pump provides both cooling in the summer and heating in the winter turning the previously sweltering garage into a comfortable usable space Energy Independence & Cost Savings By powering the heat pump with a solar array and battery storage the homeowner achieved a zero cost operating expense for the garage saving money on electricity Quiet & Efficient Operation Ductless mini split heat pumps are known for their quiet operation and high efficiency compared to traditional heating methods as they transfer heat rather than generate it Installation & System Details Ductless Mini Split System This type of heat pump is ideal for spaces like garages without existing ductwork as it uses an indoor unit to distribute heated or cooled air Solar Power Integration The homeowner integrated the heat pump with a solar panel system and battery bank enabling it to run entirely on solar energy and making it completely off grid for that particular function The Experience of Reviewers The homeowner used the heat pump system in their garage to manage both hot summer days and cold winter conditions with the primary goal of transforming the garage from a sweltering space into a comfortable area The video review details the entire setup which shows the EG4 mini split heat pump connected to solar panels on the yard and a battery system according to The Cool Down United States Heat pumps can help alleviate residential energy insecurity in the USA Nature Heat pumps provide both heating and cooling and can reduce the need for people to limit their energy use due to high energy bills as they operate United States HVAC startup rolls out major update that dramatically boosts performance The Cool Down Despite the name heat pumps function as both a heater and a cooling system by moving heat around the space in an energy efficient manner rather than

Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization Quilt a heat pump startup is one of the first to install a software update remotely and it was one with a major impact Its update increased the function of the heating and cooling capabilities by more than 20 percent From the very beginning we wanted to design the systems to be able to be continuously improved updated over the air It is a pattern that is happened in EVs and gotten a lot of traction but no one had really done that before in HVAC The CEO of Quilt told TechCrunch In cars sometimes they call it software defined vehicles We feel like we have created software defined HVAC United States Interested in a high tech kitchen? There is 840 dollars up for grabs when you upgrade to state of The Cool Down Rebate of up to 840 dollars You can even regulate temperatures in each room with individually controlled all electric heat pump systems United States 9 11 dust exposure linked to blood mutations in responders Air Quality News Wood burning and cooking to be covered by Conference Discussion Panel Children are losing millions of healthy years to secondhand smoke a study United States Confused homeowner speaks up after spotting frustrating trend among plumbers The Cool Down Switching from a regular electric water heater to a heat pump model can save you over 500 dollars per year on energy bills according to Energy Star United States Homeowner shares honest thoughts after ditching water heater for trendy model The Cool Down Heat pump water heaters have been receiving a lot of attention lately due to the federal incentives available for this energy efficient upgrade California Vallejo Less fireplace cuddling cleaner air in store Air District says Times Herald Online wood stove or other wood burning Like cigarette smoke wood smoke contains carcinogenic substances such as benzene and polycyclic aromatic

Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization A change in Bay Area District regulations means Vallejoans will have fewer opportunities to cuddle in front of the fireplace or light up the fire pit for a party

At the same time the change means Vallejo and Bay Area residents will be living in an environment with cleaner air according to the district. It will reduce harmful wood smoke exposure and build up through more health protective standard. California Lawmakers take bold action to make new buildings safer. It is an absolute need. The Cool Down. New heat pump legislation looks to slash carbon pollution in California. here is how it will impact homeowners. 3C California. San Francisco. Bay Area Spare the Air alerts to become more frequent after air regulators lower threshold. CBS News. wood burning fireplaces or outdoor fire pits. wood burning fireplaces or outdoor fire pits. In a press release on Wednesday the Bay Area Air. Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization. AI Overview. Spare the Air alerts could double in Bay Area under new rule. Bay Area air quality regulators lowered the fine particulate matter threshold for Spare the Air alerts from 35 to 25 micrograms per cubic meter which is expected to more than double the annual number of alerts to an estimated 19 to 41 days from a historical average of about 15. This change approved by the Bay Area Air District board and effective immediately aims to protect residents from harmful wood smoke at lower concentrations. What This Means for Residents. More Frequent Wood Burning Bans. The stricter standard means Spare the Air alerts which typically ban most wood burning will be issued more often during the winter months. Healthier Air. The new threshold is a stricter more health protective standard that provides greater protection from fine particulate matter a key component of wood smoke. How to Stay Informed. To find out when a Spare the Air alert is in effect residents can sign up for text or email alerts on the Spare the Air website or by visiting BAAQMD dot gov. 4D California. San Francisco. Wealthy San Francisco residents outraged by trendy new wood fired grill restaurant. Daily Mail. It seems the best the owner can do is to stop using the wood burning stove and cook the way most restaurants cook she told the paper. A new French restaurant. Wealthy San Francisco residents outraged by trendy new wood fired grill restaurant belching fumes into their neighborhood. Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization. Daily Mail. October 1, 2025. A new San Francisco restaurant has become the focus of a neighborhood row after residents claimed its wood fired grill is filling the area with smoke and triggering health problems. La Cigale a 16 seat French restaurant in Glen Park opened this summer under chef Joseph Magidow. The kitchen has no gas equipment relying entirely on an open hearth where meat and vegetables are cooked over burning wood. Neighbors say the constant smoke has left them suffering from headaches coughing fits and asthma attacks. Some families claimed they are even considering moving out fearing the impact on their children. A woman who is eight months pregnant said her air purifier turned red as smoke entered her home. We want the downtown of Glen Park to be revitalized and we want this restaurant to thrive but not at the expense of our health she told the SF Chronicle. adding that she has suffered headaches watery eyes and coughing fits. Longtime resident Lori Feldman said her asthma has worsened to the point where she now uses an inhaler several times a week. It seems the best the owner can do is to stop using the wood burning stove and cook the way most restaurants cook she told the paper. A new French restaurant La Cigale in San Francisco has sparked a neighborhood feud over smoke from its wood fired grill. A new French restaurant La Cigale in San Francisco has sparked a neighborhood feud over smoke from its wood fired grill. Wood burning ovens and grills long seen as a hallmark of fine dining are now facing growing scrutiny over health risks. Wood burning ovens and grills long seen as a hallmark of fine dining are now facing growing scrutiny over health risks. Chef Joseph

Magidow built his 16 seat restaurant entirely around a wood burning hearth there is no gas equipment in the kitchen One Chef built his 16 seat restaurant entirely around a wood burning hearth there is no gas equipment in the kitchen insists he has invested heavily in safety measures spending about 50000 dollars to extend the chimney of the restaurant above nearby rooftops and adding filters to catch sparks and particles But complaints have continued and he admits further upgrades such as a 75000 dollar pollution control system may be needed We are operating in good faith he said Our feeling is that certain people may only be satisfied with a 100 percent perfect solution and that solution is unlikely to be 100 percent perfect But does smoke from these grills pose a real health threat? According to the US Environmental Protection Agency EPA wood smoke contains fine particles and toxic gases that can irritate the lungs trigger asthma and even increase the risk of heart attacks and strokes Wood smoke is a complex mixture of gases and fine particles that can harm your health and people with asthma children and older adults are especially at risk the agency warns Research published in Environmental Health Perspectives has shown that wood smoke contains carcinogens such as formaldehyde and benzo a pyrene and long term exposure is linked to reduced lung function and chronic bronchitis Restaurant workers are particularly vulnerable A 2017 study on cooking smoke exposure found that chefs and kitchen staff regularly exposed to grill fumes reported significantly higher rates of coughing wheezing and other respiratory symptoms compared with control groups Neighbors say air purifiers have turned red inside their homes signaling dangerous air quality as smoke drifts in Neighbors say air purifiers have turned red inside their homes signaling dangerous air quality as smoke drifts in Chefs across the Bay Area have spent tens of thousands on filters and scrubbers to reduce smoke complaints from neighbors Chefs across the Bay Area have spent tens of thousands on filters and scrubbers to reduce smoke complaints from neighbors Tadich Grill one of the oldest restaurants in San Francisco still cooks over charcoal but in 2022 it was cited for failing to protect workers from harmful exposure The American Lung Association has also cautioned that wood smoke is a major source of particle pollution indoors and outdoors Breathing particle pollution can trigger asthma attacks cause coughing wheezing and shortness of breath and even lead to premature death in people with heart or lung disease the group states The dispute reflects a wider problem across the U S where smoke from wood fired cooking has become a flashpoint New York City pizza joints are being forced to raise prices to cover the cost of new air filtration systems after the city introduced strict emissions rules Mayor Eric Adams signed off on a 2024 plan requiring wood and coal fired ovens to slash smoke output by 75 percent impacting more than 130 businesses Restaurants can apply for an exemption but only if they prove they cannot afford the upgrades The mandate has cost iconic pizzerias tens of thousands At Pizza of Grimaldi an owner said one unit cost 50000 dollars We have to do it We cannot cook pizza any other way said noting coal ovens must reach 1200 degrees to bake a pie John of Bleecker Street one of the oldest coal fired pizzerias in the city spent more than 100000 dollars We were told we had no choice We have no business without our oven the manager said Some restaurants have spent up to 75000 dollars on pollution control systems to cut down on fumes Chefs have argued the changes are costly but unlikely to ruin the taste of the famous pizzas of New York I do not think it will impact the flavor that much professional chef said It is impossible to get the smoke out completely unless you use an electric oven The ones that will suffer most are probably Neapolitan pizzas Still Sanchez noted cooks will adapt Say they really need smoke in the dish then they might use a mozzarella that was previously smoked or speck ham which is really smoky too Colorado HVAC tech stunned after seeing the performance of the heat

pump in single digit weather The Cool Down One HVAC tech shared in the HVAC subreddit that even in single digit temperatures a heat pump they would installed kept the home of a customer at a toasty 77 degrees Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization One HVAC tech shared in the r HVAC subreddit that even in single digit temperatures a heat pump they would installed kept the home of a customer at a toasty 77 degrees Fahrenheit even without a backup heating system Pretty impressed by the carrier comfort heat pump units they wrote Heat pumps outperform traditional HVAC systems in energy efficiency with the clean energy nonprofit Rocky Mountain Institute reporting that heat pumps are between 2 point 2 and 4 point 5 times more efficient than Energy Star rated gas furnaces This increased efficiency translates to lower energy bills as it reduces electricity consumption by around 75 percent per the Department of Energy And since heat pumps can both heat and cool your home you can enjoy savings all year round You can also snag a 30 percent tax credit up to 2000 dollars for qualifying heat pumps through the Inflation Reduction Act though you will want to act by December 31 when the incentives will expire Colorado Homeowner questions popular HVAC upgrade after receiving enticing installation offer The Cool Down A homeowner in the Denver Colorado area turned to the internet for advice about upgrading to an electric heat pump Georgia Troup County Three Ways to Get from LaGrange Daily News The size of the rebate or tax credit you can get depends on your household income heat pump electric stove or other improvements For households Illinois Republicans State officials propose rebate program for middle class families struggling to pay their utilities The Cool Down heat pump systems With an energy efficient all climate system from Mitsubishi you can reduce the amount of energy needed to heat and cool your Indiana West Lafayette Purdue University Study finds wood burning stoves hurt lungs like cigarette smoke Health Purdue Exponent Scientists say trendy indoor wood burners at home can lead to a decline in lung function by causing inflammation Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization Using a trendy indoor wood burner at home can lead to a decline in lung function by causing inflammation say scientists The use of solid fuel for domestic heating has soared in the UK and Europe particularly among wealthy families due to the marketing of wood as renewable energy and high fossil fuel prices In the UK the proportion of harmful PM 2 POINT 5 air pollution known as fine particulate matter caused by domestic solid fuel is now 20 percent of the total compared with 4 percent for road vehicle exhaust emissions Annual emissions specifically from domestic wood burning almost doubled from 3200 tons in 2009 to 6000 tons in 2023 Building on a previous study that mapped the use of solid fuel burning stoves across the UK researchers used data from the English Longitudinal Study of Aging ELSA to look at the connection between self-reported solid fuel use at home in England and lung function decline The team lung function of assessed patients according to a measure called FEV1 which quantifies the amount of air a person can forcefully exhale in the first second of a breath Lower FEV1 values are associated with increased risk of respiratory complications and poorer health making it a key marker for monitoring diseases such as asthma and chronic obstructive pulmonary disease COPD Study leader Doctor Laura Horsfall said We know wood burning at home emits harmful air pollution both indoors and outdoors including known carcinogens Despite this air pollution from this source has approximately doubled in the UK since 2009 as more people install and use wood stoves However the link with health outcomes in high income countries is not well understood and residential areas with high emissions are

hard to identify using existing air quality monitoring networks Doctor Horsfall principal research fellow at the Institute of Health Informatics at University College London UCL explained that studying health impacts is challenging because wood burning households tend to be wealthier and healthier overall She said We found that people using solid fuel had lower rates of smoking and lung disease which can mask the true effects of solid fuel exposure However using repeated lung function measurements over an eight year period we found that lung function declined faster among solid fuel users compared to nonusers even after adjusting for socio economic and housing factors This suggests an important link between solid fuel use and respiratory decline despite the healthier baseline of the exposed group Doctor Horsfall added Our study suggests that high levels of particulate matter from stoves damage respiratory tissues causing inflammation in a similar way to cigarette smoke Doctor Horsfall and her team now plan to investigate whether people living in or near areas with a high concentration of wood stoves such as the wealthier parts of London also show increased rates of respiratory issues such as inhaler prescriptions and hospital visits for lung conditions She is due to present the findings at the European Respiratory Society ERS Congress in Amsterdam Holland The ERS says the study suggests that wood burners should be considered a potential environmental risk factor in the future Professor Ane Johannessen head of the ERS expert group on epidemiology and environment said In Europe we are seeing a growing trend for using wood burning stoves at home Research in other parts of the world where traditional wood burning is used in the home has shown that this is harmful and causes asthma COPD and lung cancer These findings suggest that wood burners used in European homes may have similar effects and should be considered a potential environmental risk factor when assessing respiratory health especially in patients with unexplained lung function decline or chronic respiratory symptoms Although new eco design European wood burners are generally considered cleaner and safer than more traditional wood stoves many European homes still employ older wood burners and even the newer stoves may not be entirely risk free Johannessen of the University of Bergen in Norway added This study underscores the need for clearer public health guidance and regulation around domestic wood burning People should be aware that these stoves could be harming them and their families and doctors should be asking their patients about whether they are using stoves at home

Massachusetts Brewster 2025 Residential Rebates brewster ma dot gov water heat pumps 15000 dollars for whole home ground source heat pumps 750 dollars instant savings on heat pump water heaters Rebates may be dependent on Massachusetts Lexington News Flash Heat Pump Rebates Info from Lexington Energy Lexington Massachusetts rebate Who Must Install Your Heat Pump to Get a Rebate? you must use a contractor from the Mass Save to receive a residential heat pump rebate New York Proud homeowner cancels oil company contracts after upgrading to ultra efficient appliance The Cool Down When one Redditor installed a Rheem ProTerra 50 gallon heat pump water heater they were shocked by the low energy usage There is also a rebate worth **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization** Proud homeowner cancels oil company contracts after upgrading to ultra efficient appliance No more playing their pricing games It is so hard for me to wrap my head around When it comes to cutting energy bills a Redditor in New York just showed how swapping out one home appliance can make a big difference Wisconsin Milwaukee Gov Evers PSC Celebrate IRA Home Energy Rebates Now Available at Retail Urban Milwaukee Working in tandem with the leading rebate programs in Wisconsin for an ENERGY STAR electric heat pump for space heating and cooling Canada

Carrier Fall Promotion with Smarter Financing HVACR Business While the new financing promotion is not available to contractors in Canada rebate options are available to make high efficiency heat pump systems

4E United Kingdom **RAWSEP View** The editor of RAWSEP believes that this is misinformation or disinformation put out to farmers in the United Kingdom that Heat Pumps are expensive is deliberate and possibly put out by the fossil fuel industry and the wood burning industry The UK Government is providing financial incentives to make Heat Pumps affordable for everyone And as usual the fixation on economic arguments even if those economic arguments are not true convinces some that these economic arguments are practical and based on reality How about starting a discussion with true facts about negative health effects and early deaths? That would be hard for even hardened farmers to hear but that would start a discussion with the truth about indoor residential wood burning for home heating Insulation of homes whether in rural areas or urban areas should be a given If there is not adequate insulation the homeowner should get it Heat Pumps do not require additional insulation but from a practical point of view adequate insulation should be looked into Insulation does not break the bank Any home with walls is insulated against the elements including the cold United Kingdom dwellings have a reputation of not being well insulated at least in comparison with United States homes since many homes still being used in the United Kingdom are hundreds of years old **Alternative renewable fuels is probably a code word for wood fired stoves since fossil fuels are not renewable So this appears to be false advertising for the wood burning industry in the United Kingdom** The air pollution adverse health effects of burning wood are not mentioned in this article Wood burning emits 2 point 8 times the PM2 point 5 as coal burning Wood burning emits 450 times the PM 2 point 5 as the fossil fuel natural gas burning This data comes from testing the cleanest burning wood stove in the UK the Eco Design wood stove To address the economic argument as mentioned before the UK government provides financial incentives for purchasing Heat Pumps that in 2025 work down to 40 degrees below zero double as air conditioners and lower monthly electric bills immediately **From the article headline** September 30 2025 Who let the pigs out? Heat pump fixation? Mart socializing BBC Sounds **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization** Catch up on your favorite BBC radio show from your favorite DJ right here whenever you like Listen without limits with BBC Sounds Farming Today June 10 2025 updated September 30 2025 A new report commissioned by the research body Rural England claims the Government policy on rolling out environmentally friendly home heating is heat pumps or nothing The report says heat pumps can be expensive and impractical to install in old rural housing in part due to the insulation needed to make the pumps warm rooms efficiently It suggests that more should be done to promote alternative renewable fuels which could be used in existing heating systems

4F United Kingdom Wood burners are bad for you Here is why you did not notice The Telegraph Wood burners damage lung function but the impact is hidden because owners are wealthier and healthier than the average person scientists have warned Wood burners are bad for you Here is why you did not notice Being wealthy and healthy can mask the detrimental impact of exposure to domestic fires survey suggests **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization** The Telegraph September 30 2025 Wood burners damage lung function but the impact is hidden because owners are wealthier

and healthier than the average person scientists have warned AI overview Wood burners damage lung function but the impact is hidden because owners are wealthier and healthier than the average person scientists have warned Researchers from University College London UCL examined health and fuel use data from 11000 people taking part in the English Longitudinal Study of Ageing Over an eight year period they found that lung function decreased by 120ml for those with wood burning stoves compared with 70ml in people with other forms of heating study found that wood burning appliances were more likely to be used by white people in affluent neighborhoods and in cities which made the damage difficult to spot because households had a baseline of better health Doctor Laura Horsfall principal research fellow from the Institute of Health Informatics at UCL said We found that people using solid fuel had lower rates of smoking and lung disease which can mask the true effects of solid fuel exposure However using repeated lung function measurements over an eight year period we found that lung function declined faster among solid fuel users compared to nonusers even after adjusting for socioeconomic and housing factors This suggests an important link between solid fuel use and respiratory decline despite the healthier baseline of the exposed group She added Our study suggests that high levels of particulate matter from stoves damage respiratory tissues causing inflammation in a similar way to cigarette smoke Although the effect is not as much as smoking which diminishes lung function by 40ml to 60ml a year experts say it could still be having an impact on health Hopefully this research causes people to question if the payoff of having a wood burner is worth it for the detrimental impact it could have on you and the lungs of your family It would be good to see increased awareness on the impact of wood burners with clearer information and guidance from the Government on the health impact as well as increased regulation around domestic wood burning This study underscores the need for clearer public health guidance and regulation around domestic wood burning People should be aware that these stoves could be harming them and their families and doctors should be asking their patients about whether they are using stoves at home

United Kingdom New Study Links Wood Burning Indoors to Lung Damage roy castle dot org Roy Castle Lung Cancer Foundation Could your cozy wood burning fireplace be as dangerous to your lungs as smoking cigarettes? New research stark warning

United Kingdom Indoor wood burners linked to a decline in lung function Nursing in Practice Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization Nursing in Practice People who use solid fuel wood burners for home heating may have a faster decline in lung function over eight years compared to nonusers Indoor wood burners linked to a decline in lung function Indoor wood burners linked to a decline in lung function People who use solid fuel wood burners for home heating experience a faster decline in lung function over eight years compared to nonusers a new study suggests Researchers at University College London UCL found that the use of solid fuel was associated with a more rapid decline in FEV₁ a key indicator of lung capacity and respiratory health and is linked to an increased risk of COPD and asthma The findings presented at the European Respiratory Society Congress 2025 in Amsterdam suggested that high levels of particulate matter from stoves damage respiratory tissues causing inflammation in a similar way to cigarette smoke Related Article Over one million children living in homes causing asthma and chronic illness The researchers now plan to investigate whether people living in or near areas with a high concentration of wood stoves such as the wealthier parts of London also

exhibit increased rates of respiratory issues including prescriptions for inhalers and hospital visits for lung conditions

United Kingdom How wood burners can really impact your health Yahoo Life UK Woman putting a well dried log into a glowing wood burning stove The use of wood burners in the UK has nearly doubled since 2009

United Kingdom Wood burning stoves may damage lungs like smoking study warns The Times of India Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization The Times of India A new study warns that indoor wood burning stoves significantly damage lung capacity comparable to cigarette smoking even among healthier users Wood burning stoves may damage lungs like smoking study warns A new study warns that indoor wood burning stoves significantly damage lung capacity comparable to cigarette smoking even among healthier users Despite these growing health risks and increased air pollution their use is rising in the UK Health experts and campaigners are now urgently calling for tougher regulations and bans on these stoves The study funded by the Wellcome Trust is observational and has not yet been peer reviewed Still campaigners and medical bodies are urging tougher regulations Groups such as Mums for Lungs are calling for a phase out of new stoves within a few years and bans on nonessential burning by the 2030s The Royal College of Pediatrics and Child Health has urged a ban on wood burners in urban areas while doctors in Scotland and environmental health groups have pressed for similar restrictions Regulators are now under pressure to act with mounting evidence that even modern eco design stoves may not be safe

4G Europe Indoor wood burners linked to a decline in lung function EurekAlert! Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization Using a wood burning stove at home can lead to a decline in lung function according to research presented at the European Respiratory Society Using a wood burning stove at home can lead to a decline in lung function according to research presented at the European Respiratory Society Congress in Amsterdam the Netherlands 1 The study was presented by Doctor Laura Horsfall Principal Research Fellow from the Institute of Health Informatics University College London UK The use of solid fuel for domestic heating has increased in Europe due to the marketing of wood as renewable energy and high fossil fuel prices In the UK the proportion of harmful PM 2.5 air pollution fine particulate matter caused by domestic solid fuel is now 20 percent of the total compared with 4 percent for road vehicle exhaust emissions Annual emissions specifically from domestic wood burning almost doubled from 3200 tons in 2009 to 6000 tons in 2023 Public Health Guidance Researchers emphasize the need for better public health guidance and stricter regulations regarding domestic wood burning Medical Awareness Doctors should inquire about wood stove use during patient visits especially when patients present with unexplained lung function decline or chronic respiratory symptoms Public Awareness The public needs to be more aware that wood burning stoves can be a significant health risk to themselves and their families despite their trendy appeal

Switzerland Heat Pump Optimization Comparative Study of Different Optimization Algorithms and Heat MDPI More energy efficient heat pumps can be designed if the industry is able to identify reliable optimization schemes able to predict how a fixed

China PM_{2.5} Assessment of health economic losses caused by PM_{2.5} and ozone pollution in Beijing and Tianjin Nature Therefore compared with other methods the Poisson regression relative risk model is more suitable for modeling PM_{2.5} and ozone pollution data to

China PM_{2.5} Impact of long term exposure to PM_{2.5} and its components on the risk of chronic lung BMC Public Health BioMed Central Epidemiological evidence indicates a close association between particulate matter with an aerodynamic diameter of fewer than 2.5 micrometer PM_{2.5} and

China PM_{2.5} Modulation of wintertime PM_{2.5} concentration in the Fenwei Plain by Eurasian like pattern ScienceDirect com After 2037 there may be more frequent PM_{2.5} pollution events and pollution extreme in the Fenwei Plain under high emission scenarios ABSTRACT The

China PM_{2.5} Nitrate driven extreme winter PM_{2.5} pollution in Shanghai China n p j Clean Air – Nature The intensity and frequency of severe fine particulate matter PM_{2.5} pollution events in Shanghai have reduced following strict emission controls

China PM_{2.5} enhances DRP1 mediated mitochondrial fission to induce ferroptosis and exacerbate ScienceDirect com PM_{2.5} activates AHR PKM2 ferroptosis in bronchial epithelial cells to worsen asthma Isoliquiritigenin prevents PM_{2.5} induced activation of AHR Notice Because of a lapse in government funding the information on this website may not be up to date transactions submitted via the website may not be processed and the agency may not be able to respond to inquiries until appropriations are enacted The NIH Clinical Center the research hospital of NIH is open For more details about its operating status please visit cc.nih.gov Updates regarding government operating status and resumption of normal operations can be found at opm.gov

China PM_{2.5} Study of socioeconomic differences of long term PM_{2.5} exposure and population mortality risk BioMed Central Among air pollutants fine particulate matter PM_{2.5} particles with an Final PM_{2.5} estimates were obtained by correcting CMAQ simulations with The association between PM_{2.5} and mortality varied by socioeconomic status demonstrating a U shaped pattern with the highest mortality risk observed among residents in cities with both the lowest and highest socioeconomic levels

Korea PM_{2.5} Particulate matter 2.5 promotes pulmonary fibrosis in allergic asthma through macrophage ScienceDirect com Abstract Inhaled particulate matter 2.5 PM_{2.5} less than or equal to 2.5 micrometers exacerbates airway inflammation and promotes fibrosis in allergic asthma However most Collectively these results demonstrate that PM_{2.5} promotes pulmonary fibrosis beyond airway inflammation through macrophage reprogramming into a mixed M2a M2b M2c profile highlighting macrophage plasticity as a key mechanism in allergic asthma