

Episode 57DHR May 20 2025 Cuts to Medicaid included in House Budget Bill giving tax cuts to the rich

In Episode 57DHR 1 United States House of Representatives Rules Committee will take out the Budget Omnibus Bill written by Republicans this week which includes cuts to Medicaid 2 United States Unmasking the complicated chemistry of wildfire smoke How far have scientists come? 2 United States Unmasking the complicated chemistry of wildfire smoke How far have scientists come? **From the Wikipedia Definition of Brown Carbon** In chemistry, brown carbon C brown Br C is brown smoke released by the combustion of organic matter It coexists with black carbon when released in the atmosphere Black carbon is primarily released by high temperature combustion and brown carbon is emitted mainly by biomass combustion 3 United States Paper Sensors and Smartphone App Monitor Personal Smoke Exposure 4 United States US boosts National Forest logging for wildfire risk reduction **RAWSEP View** Is this logging done for profit for the logging industry or purely to contain wildfires? 5 United States Heat Pumps sorted by Publisher then sorted by Headline 6 Alaska Fairbanks Long term efforts to clean the air in Fairbanks are paying off **RAWSEP View** Do not repeat the advertising slogans of the appeal of wood burning in what is supposed to be a factual news story in a normal newspaper That will not solve your problem Anchorage and Fairbanks! Why is wood smoke stated to be only an underlying problem of air pollution emissions Wood smoke is a major problem of Fairbanks emissions and probably of Anchorage emissions if there is any research into air pollution in Anchorage 7 Alaska Fairbanks March 29 2025 Alaska Legislature passes resolution supporting wood burning certification program for Fairbanks North Star Borough **RAWSEP View** The obvious solution for Fairbanks is Heat Pumps with Heat Pump Rebates of up to \$8000 based on a sliding income scale for home heating and Natural Gas as a backup if enough home insulation is not used to make use of Heat Pumps down to 40 degrees below zero feasible in Fairbanks homes For some background on how Fairbanks is constrained by the Alaska Legislature in how it addresses the problem of wood stove air pollution see the article below The key excerpt from the article below is that the March 29 2023 Alaska Legislature **resolution also expresses concern that the United States EPA seems intent on turning attention toward so called greener sources of heat including electric heat pumps that will not work as solutions in the Fairbanks North Star Borough** The resolution highlights the need for adequate and affordable sources of heat in harsh subarctic winter conditions and acknowledges that **a pathway for the use of solid fuel burning appliances like wood burning stoves and appliances is essential to residents of the Fairbanks North Star Borough** 8A California Auburn Incentives Offered to Replace Your Old Wood Stove **RAWSEP View** Wrong Answer Placer County and City of Auburn! Do not replace air polluting wood burning with slightly less air polluting wood burning when the clean alternative of a Heat Pump is available with Heat Pump Rebates in California of up to \$8000 based on a sliding income scale 8B California Coronado City Council Approves Amendment To Timeshare Ordinance **RAWSEP View** A ban on all wood burning is a good idea **From the headline** Coronado Eagle 9 request to reconsider the Beach Fire Ordinance of the City of Coronado to discuss a potential amendment to extend the ban on wood burning fires to the jetty 9B Colorado Drill and save the planet CALDARA Opinion Colorado politics dot com **RAWSEP View** Wrong Answer Colorado! This article is wrong in many ways! Say no to drilling for fossil fuel to burn to unnecessarily pollute the air! Say no to burning wood to unnecessarily pollute the air! Say no to burning cow dung to unnecessarily pollute the air! There are clean energy Heat Pumps with Heat Pump Rebates in Colorado in 2025 which make clean energy solutions less costly than burning fossil fuels and solid fuels in 2025 **From the headline** Colorado Politics smoke just to cook meals for the family This indoor smoke pollution Burning wood

pollutes less than burning cow dung Burning coal or 9C Colorado Mesa County No Burn Advisory extended due to air quality concerns 9D Colorado Teller County A small wildfire burning in Teller County started because a wood chipper caught on fire 10 Indiana Heat Pump Rebates Indiana opens up rebate program to help Hoosiers lower their energy bills carbon emissions WBAA Indiana residents can get up to \$8000 for a heat pump through the new state program Heat pumps are more energy efficient than other heating 11 Maine Heat Pump Rebates Has Maine learned how to make heat pumps lower electricity costs for all? 12 Maryland Heat Pump Rebates Advocates Empower Maryland energy efficiency program provides savings to consumers 13 Nevada Washoe County NNPH Air Quality Division seeks applicants for Certified Wood burning Device Inspector Program Washoe Life Washoe County Knowledge of EPA certified wood burning devices and emissions standards Ability to provide impartial and professional inspections 14 New Mexico Raton Pallets Fire Sends Smoke High Above Raton Monday Afternoon 15 Pennsylvania Heat Pumps As federal incentive rollbacks loom could the heat pump revolution stall out in Pennsylvania and elsewhere? 16 Vermont Kick off to wildland fire season in Vermont Backyard burning reminders [RAWSEP View](#) Wrong Answer Vermont! Waste wood should be transported to a recycling center and not burned Burning all wood not only treated wood produces adverse health effects 17 Wisconsin Fond du Lac fire out Firefighters warn about the dangers of burning debris 18 Southern Hemisphere PM TWO POINT FIVE and deadliness Heat and Pollution Events Are Deadly Especially in the Global South 19A United Kingdom UK could take more US wood pellets to burn for electricity amid trade talks [RAWSEP View](#) Wrong Answer United Kingdom! Wood is wood which pollutes the air when burned whether the wood is rare or ordinary wood The adverse health aspects of wood burning are being ignored in this article Do not use air polluting wood burning when the clean alternative of a Heat Pump is available with Heat Pump Rebates in the United Kingdom in 2025 based on a sliding income scale Heat Pumps in 2025 work down to 40 degrees below zero double as air conditioners and lower monthly electric bills immediately 19B United Kingdom PM TWO POINT FIVE and cooking Understanding particulate matter emissions from cooking meals 20 Europe Heat Pumps Germany France and Poland could equip every energy poor home with a heat pump A new study finds that investing just one third of the Social Climate Fund the EU could subsidize up to 20 million heat pumps across the EU 21 Italy Heat Pumps Beretta unveils residential air to water heat pump 22 Ghana Cooking with firewood similar to smoking two packs of cigarettes daily 23 China 24 PM two point five and human health Main Content

1 United States House of Representatives Rules Committee will take out the Budget Omnibus Bill written by Republicans this week which includes cuts to Medicaid [Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501c3 nonprofit organization](#) Substack Letters from an American Heather Cox Richardson May 19 2025 The House Rules Committee will take up the Republicans omnibus bill this week Illustrating their confidence that the American people support this 1116 page measure enacting much of the MAGA wish list the committee has set its meeting for Wednesday May 21 2025 at 1 AM in the morning That late night time for the meeting is not a typo The Republicans are trying to advance the Trump entire agenda from massive logging on public lands to slashing Medicaid in one giant bill under a process known as budget reconciliation which means it cannot be filibustered in the Senate That means it needs only Republican votes to pass But even Republicans are deeply divided over the measure While far right Republicans insist cuts to the social safety net are not deep enough because of the massive deficits that the tax cuts

for the wealthy and corporations of the measure will create Other Republicans recognize that Medicaid cuts are hugely unpopular According to a KFF poll released May 1 more than 75% of Americans oppose such cuts 12 swing state Republicans who do not want drastic Medicaid cuts and 31 hardliners who do House speaker Mike Johnson Republican of Louisiana R LA can afford to lose only three Republican votes on the measure Trump will go to Capitol Hill tomorrow to talk Republicans into voting for the measure

Headlines Google Alerts May 20 2025

2 United States Unmasking the complicated chemistry of wildfire smoke How far have scientists come? [From the Wikipedia Definition of Brown Carbon](#) In chemistry, brown carbon C brown Br C is brown smoke released by the combustion of organic matter It coexists with black carbon when released in the atmosphere Black carbon is primarily released by high temperature combustion and brown carbon is emitted mainly by biomass combustion These two are the two most important light absorbing substances in the atmosphere The climate and radiative transfer are highly impacted by the absorptive properties of these substances [RAWSEP View](#) The term brown carbon is a new one to the editor of RAWSEP Why differentiate between black carbon from some polluting perhaps fossil fuel sources and brown carbon from wood burning? Is brown carbon a term used by scientists generally? Why differentiate? Carbon is Carbon Think of sugar from refined white sugar cane and sugar from honey They are both the same as each other basically sugar and have the same sometimes adverse effect on the human body Wildfire smoke may contain emissions from wildfires reaching and burning houses such as emissions from plastics it is true so that would differentiate burning a mix of plastics and wood in a wildfire from wood burning when testing in a lab for pure wood burning emissions [From the headline](#) Climate dot gov Researchers closely examined ozone and brown carbon an air pollutant mostly released from burning wood and plants They found that the fire

3 United States Paper Sensors and Smartphone App Monitor Personal Smoke Exposure Morning Ag Clips Human exposure to wood smoke is linked to numerous health issues including respiratory disease cardiovascular disease and lung cancer Currently Paper sensors and smartphone app monitor personal smoke exposure [Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents](#) [Against Wood Smoke Emission Particulates a 501c3 nonprofit organization](#) Washington State University May 7 2025 Graphical abstract Credit ACS Applied Materials & Interfaces 2025 DOI 10.1021/acsami.5c02147 An inexpensive paper sensor along with a smartphone based reader developed by a Washington State University led team can rapidly provide information on a the personal smoke exposure for one person during wildfire season The sensor can provide valuable information for firefighters and others to clarify just how much harmful pollution they might inhale during smoky conditions The researchers including those from the University of Washington and University of Georgia report on their work in the journal ACS Applied Materials and Interfaces The paper biosensor uses tiny flower like particles of palladium and platinum to detect and amplify the signal from wildfire smoke biomarkers in urine To make the system field ready the team also developed a custom 3D printed smartphone reader and app allowing users to rapidly scan and quantify their exposure on site Our goal is to quickly identify the exposure onsite in real time and report it with a smartphone reader so agencies can quickly identify the exposure level and location and make decisions for a hazard prevention strategy said Annie Du a research professor in the WSU School of Mechanical and Materials Engineering who is leading the project L R Professor Annie Du postdoctoral researcher Xinyi Li and research scientist Zhansen Yang developed a

paper sensor along with a smartphone based reader that can rapidly provide information on the personal smoke exposure of a person during wildfire season. Li and Yang are co first authors on the work. Credit Washington State University. With the increasing number and size of wildfires in recent years researchers would like better information on the personal smoke exposure of people to understand and mitigate its health impacts more effectively. Human exposure to wood smoke is linked to numerous health issues including respiratory disease cardiovascular disease and lung cancer. Currently estimates of the smoke exposure level of a person are not exact. Agencies determine how much smoke a person may be exposed to based on computer models that use regional meteorology satellite data air quality sensors in the region or even personal perceptions of smoke levels. Those methods sometimes miss the big variations in smoke that can happen in a small area. They also do not get the specific exposure levels of a person to chemicals or how a person might variably metabolize and process pollutants in his or her body. Furthermore exposure to pollutants from wildfires could have impacts on people even if they do not have a lot of symptoms. You are exposed to smoke when you breathe in the polluted air but your body changes that to a metabolite and introduces changes to your DNA said Du who is also in the College of Pharmacy and Pharmaceutical Sciences. That is why we are focused on early detection. We want to catch biological changes before clinical symptoms appear. There are blood tests to measure smoke exposure but they are cumbersome and expensive requiring that samples be sent to a laboratory for analysis. When fires are in remote areas getting information on the exposure of a person is even more difficult. With the test strips the researchers were able to measure tiny amounts of metabolites from the pollutant benzene. Their biosensor device is low cost and very sensitive to the signal of the benzene metabolites. Unlike a COVID test strip which only determines whether or not a person has COVID their sensor can quantify the amount of harmful chemicals someone has been exposed to. The 3D printed sensor can be connected to a smartphone so that using the location data of a phone researchers can determine exactly where smoke levels are most hazardous and identify the chemicals present in different neighborhoods. The researchers have tested the strips in a lab setting. They will now begin testing the strips with firefighters during the wildfire season and comparing them to standard lab tests. While they will initially test with wildland firefighters they are working with the Washington State University WSU Office of Commercialization and plan to adapt and expand the technology to other vulnerable populations in the future. More information Zhansen Yang et al Mesoporous Pd at Pt Nanoparticle Label Lateral Flow Immunoassay Integrated with a 3D Printed Smartphone Reader for Detection of Wood Smoke Biomarkers ACS Applied Materials & Interfaces 2025 DOI 10.1021/acsami.5c02147 Journal information ACS Applied Materials and Interfaces

4 United States US boosts National Forest logging for wildfire risk reduction [RAWSEP View](#) Is this logging done for profit for the logging industry or purely to contain wildfires? And does it really contain wildfires? What is the proof that logging contains wildfires? [From the headline](#) Wildfire Today wood products and or wood energy services USDA said in an emailed statement Burning timber at the High Park fire News of the grants was

5 United States Heat Pumps sorted by Publisher then sorted by Headline United States Heat Pumps A heat pump as big as a soccer field BASF heating and hot water systems A heat pump makes your heating more efficient and reduces carbon emissions It is thermodynamics in action United States Heat Pumps From Heating Oil to Heat Pump One Savings Story for a Homeowner CNET Heat pumps run

on electricity and move heat from inside your home to outside to cool it. Then it reverses the process for heating by pumping the heat. United States Heat Pump Rebates 30% Solar Tax Credit May End Soon Here is Why You Should not Wait Energy Sage The 30% residential solar tax credit could disappear by the end of 2025 years earlier than planned Heating & cooling Heat pump icon Explore heat United States Heat Pumps Industrial Heat Pumps Sustainable Energy Solutions for Now and the Future Food Engineering Industrial heat pumps IHPs though they use electricity as an input have the ability to put out more thermal energy per watt input than electrical United States Heat Pump Rebates Homeowner opens up after scoring enormous rebate on brand new HVAC system MSN It was a no brainer to spend the same amount of money to get a brand new 96% variable speed furnace and brand new heat pump United States Heat Pump Rebates IKEA announces new heat pump offering with discount Notebook Check dot net News Plus IKEA Family or the IKEA Business Network members are offered a 15% discount The same discount is already available for the partnership United States Heat Pumps Advancing Temperature Control With the Rise of Electric Heat Pump Technology WIRED Using electricity heat pumps are a mechanical compression cycle refrigeration system that can be reversed to either heat or cool a space using the United States Heat Pump Rebates Homeowner opens up after scoring enormous rebate on brand new HVAC system Yahoo It was a no brainer to spend the same amount of money to get a brand new 96% variable speed furnace and brand new heat pump United States Heat Pumps HVAC techs masterfully debunk common myths about next gen heat pumps Yahoo Upgrading to a heat pump not only saves money but also benefits the environment Heat pumps burn less dirty energy than furnaces and other systems United States Heat Pump Rebates Need to replace your water heater? Grab \$1200 in government incentives before they are gone Yahoo If you want to increase your energy savings now is a great time to switch to a heat pump water heater This \$8000 rebate could make your decision United States Heat Pumps On the fence about upgrading to a heat pump? This \$8000 rebate could make your decision Yahoo Heat pumps provide up to three times more energy output than they consume They are also versatile working as both heaters in winter and air The IRA offers rebates of up to \$8000 for income eligible households to install heat pumps a cutting edge system that heats and cools your home

6 Alaska Fairbanks Long term efforts to clean the air in Fairbanks are paying off RAWSEP View Do not repeat the advertising slogans of the appeal of wood burning in what is supposed to be a factual news story in a normal newspaper That will not solve your problem Anchorage and Fairbanks! Why is wood smoke stated to be only an underlying problem of air pollution emissions Wood smoke is a major problem of Fairbanks emissions and probably of Anchorage emissions if there is any research into air pollution in Anchorage From the headline Anchorage Daily News While wood smoke is the underlying problem Emissions from other sources and providing dry wood and incrementally more efficient wood burning which still produces hundreds of times the PM two point five emissions as natural gas burning are what is primarily addressed in this article So the winter cold mean the appeal of wood and wood burning will continue in Fairbanks This article answers yes to the dismay of the editor of RAWSEP Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501c3 nonprofit organization The Alaska Beacon May 12 2025 Long term efforts to clean air in the second largest city in Alaska are paying off Better wood and better stoves are key components of cleaner air in a cold weather region where atmospheric inversions trap pollution May 12 2025 Just 140 miles south of the Arctic Circle far from any major industrial or population centers The

second largest city in Alaska has struggled for decades with some of the worst winter air pollution in the United States. Now years of work to clear particulate pollution from the air in the Fairbanks North Star Borough, the approximately 7,500 square mile district encompassing the city of Fairbanks and its outskirts, is paying off. At issue are the pollutants known as Particulate Matter 2.5, minute particles no bigger than 2.5 micrometers in diameter. They are health hazards. They can become embedded in the lungs and even get into the bloodstream and body organs. Since 2015, levels of those fine particulates, the majority of which has come from wood burning stoves, have been roughly cut in half during the worst winter air quality days. [RAWSEP View](#) what follows is a Quote from a Government Worker which shows the power of wishful thinking to wish away life denying air pollution. While we can have the reputation of some of the worst air in the nation, it does not feel like that when you are here. [Back to the article](#)

An important milestone came in the last days of the Biden administration, when the Environmental Protection Agency gave its blessing to the Alaska state air plan for the Fairbanks North Star Borough. The tentative approval of what is known as the State Implementation Plan, or SIP, means that [the borough will likely not face any additional air quality related restrictions on construction or development at least until 2027](#). There are still improvements to be made. [The borough continues to have occasional daily violations of air quality standards in the winter](#). And there are [continued state Department of Environmental Conservation advisories about health risks from particulate pollution](#) especially in the outlying community of North Pole, home to about 2,400 people, where inversions tend to be more intense. Over the winter of 2024 to 25, there were 32 such advisories issued for the borough. Because federal standards on acceptable levels of fine particulates are tightened periodically, more progress is expected to be needed to meet future Clean Air Act requirements. Burning wood for heat. While there are multiple contributors, from big coal fired power plants to small local coffee roasters, the primary reason for winter air pollution in Fairbanks is relatively simple. Wood burning air pollution. Fairbanks temperatures [can dip below minus 40 degrees Fahrenheit](#). [RAWSEP Interjection](#) [This is a convenient excuse for not employing Heat Pumps in Fairbanks except that Heat Pumps in 2025 work down to 40 degrees below zero which is around the lowest temperature reached in Fairbanks](#). [This article does not explain why Heat Pumps as they are used in cold Scandinavia as a solution and as a changeout from wood stoves are not discussed in this article](#) and residents rely heavily on woodburning stoves as either main sources of heat or supplemental sources and where natural gas options are limited. That is a contrast to cities like [Anchorage and Calgary, where most indoor heat comes from natural gas](#) or [Scandinavian cities, where heat pumps](#) and geothermal energy are widely used. On the coldest days, severe inversions and pollution problems are most likely and the desire to burn wood is the highest. But those are the days when burning is banned. Burn bans have been unpopular. In 2018, voters passed an ordinance stripping the borough of enforcement powers on air quality matters. Enforcement of bans and other matters, as a result, is up to the state. That means the job of the borough is to monitor, provide opportunities for cleaner air and encourage residents to do the right thing. Fairbanks North Star Borough woodstove change outs by year. A modern woodstove that meets air quality requirements is seen on display on February 7, 2025, at The Woodway, a Fairbanks store. Since wood burning remains the top source of particulate pollution, much of that encouragement has focused on better wood stoves. [and why not discuss Heat Pumps as a better changeout RAWSEP asks](#). [RAWSEP Interjection](#) [Wood burning emits 2.8 times the PM 2.5 as the fossil fuel coal burning. Wood burning emits 450 times the PM 2.5 as burning the fossil fuel natural gas](#). [Returning to the article](#) Since 2010, the borough state

and EPA have collaborated on a stove trading program that enables people to replace inefficient stoves with modern versions. From 2010 to 2024, 4,783 old wood burning stoves were swapped out for upgraded heating devices according to the records of the borough. Officials are also pushing residents to burn drier wood. Kiln dried wood, which burns more efficiently and produces less particulate pollution, is an important element of the newly approved plan. Such wood has been offered since 2020 by a company called Aurora Energy Solutions. It has two kilns to dry firewood.

Lessons from science: In 2022, nearly 50 scientists from North America and Europe gathered at UAF for a project to examine details of the air quality of the borough. The Alaskan Layered Pollution and Chemical Analysis project, or ALPACA, was not focused on regulation, but the information has proved useful to agencies. For seven weeks, the group made detailed measurements of air quality and weather conditions at varying atmospheric layers. While woodsmoke is the underlying problem, emissions from other sources like power plants and heavy diesel burning vehicles compound it, as molecules of different pollutants bond with the woodsmoke molecules. The particulate free source of energy used for heat elsewhere in Alaska, natural gas, has limited application in Fairbanks.

RAWSEP Interjection: The clean energy home heating solution of Heat Pumps that work down to 40 degrees below zero and run on electricity that is surely available to most residents of Fairbanks is not mentioned in this article. Returning to the article which continues to discuss only the supposedly impossible alternative of natural gas piped in and the logistically challenging periodic trucking in of Liquefied Natural Gas.

The borough owned Interior Gas Utility provides liquefied natural gas that is delivered by truck to about 3,000 customers. The utility touts the air quality attributes of natural gas with a simple slogan on its website: Breathe Easy. However, Fairbanks lacks the grid connections and economies of scale that make natural gas the dominant energy source in Anchorage and other parts of Southcentral Alaska. The problem is even if you get a gas line coming through Fairbanks, you are never going to get infrastructure to a place that is the size of Connecticut when you only have 100,000 people in the area. It is too dispersed.

This article concludes without stating a solution that: Continued access to better wood burning stoves and drier kiln dried wood is a practical way to benefit air quality in a small way without solving the underlying problem, according to one expert.

7 Alaska Fairbanks, March 29, 2025: Alaska Legislature passes resolution supporting wood burning certification program for Fairbanks North Star Borough.

RAWSEP View: The obvious solution for Fairbanks is Heat Pumps with Heat Pump Rebates of up to \$8,000 based on a sliding income scale for home heating and Natural Gas as a backup if enough home insulation is not used to make use of Heat Pumps down to 40 degrees below zero feasible in Fairbanks homes. For some background on how Fairbanks is constrained by the Alaska Legislature in how it addresses the problem of wood stove air pollution, see the article below. The key excerpt from the article below is that the March 29, 2023 Alaska Legislature resolution also expresses concern that the United States EPA seems intent on turning attention toward so-called greener sources of heat, including electric heat pumps that will not work as solutions in the Fairbanks North Star Borough.

The resolution highlights the need for adequate and affordable sources of heat in harsh subarctic winter conditions and acknowledges that a pathway for the use of solid fuel burning appliances like wood burning stoves and appliances is essential to residents of the Fairbanks North Star Borough.

Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates, a 501(c)(3) nonprofit organization: The Alaska Beacon, March 29, 2023: The Alaska Legislature has passed House Joint Resolution 11, urging the United States Environmental Protection Agency to develop a woodstove certification program in Fairbanks, and for the

state Department of Environmental Conservation D E C to develop an economically and legally defensible state implementation plan for the Fairbanks North Star Borough nonattainment area The resolution highlights the serious health concerns associated with fine particle pollution in the Fairbanks North Star Borough nonattainment area particularly during winter Studies identified wood burning as the greatest contributor of PM2 point 5 pollution and efforts taken under the state **D E C moderate** and serious state implementation plans resulted in a significant reduction in PM TWO POINT FIVE emissions However the resolution notes that the United States the EPA national wood heater certification program is deeply flawed This is due to United States EPA certified appliances installed in the Fairbanks North Star Borough nonattainment area failing to decrease PM TWO POINT FIVE emissions compared to previously installed solid fuel burning appliances due to the United States federal EPA failure to competently manage and implement testing standards for this program Representative Will Stapp Republican of Fairbanks the prime sponsor of HJR 11 said This resolution recognizes the tremendous efforts of the people of the North Star Borough to come into compliance only to have the EPA change the regulations they previously set he said The resolution urges the United States EPA to develop a woodstove certification program that the state DEC and residents of the Fairbanks North Star Borough nonattainment area can rely on to address the core threat to clean and healthy winter air in Fairbanks and urges the state DEC to develop an economically and legally defensible state implementation plan

8A California Auburn Incentives Offered to Replace Your Old Wood Stove **RAWSEP View** Wrong Answer Placer County and City of Auburn! Do not replace air polluting wood burning with slightly less air polluting wood burning when the clean alternative of a Heat Pump is available with Heat Pump Rebates in California of up to \$8000 based on a sliding income scale Heat Pumps in 2025 work down to 40 degrees below zero double as air conditioners and lower monthly electric bills immediately Wood burning emits 2 point 8 times the PM TWO POINT FIVE as the fossil fuel coal burning and Wood burning emits 450 times the PM TWO POINT FIVE as the fossil fuel natural gas burning These statistics come from testing the cleanest burning wood burning stove in the United Kingdom the Ecodesign wood burning stove Wood burning emits 90 percent PM TWO POINT FIVE particulate matter of 2 point 5 micrometer size the perfect size to infiltrate the human lung setting off a cascade of human health problems and early deaths **From the Headline** The Placer Sentinel Keep your home and community healthy by upgrading to a new efficient EPA certified wood burning appliance Wood burning appliances today burn Placer offers incentives to replace old wood stoves Gold Country Media Applications are now being accepted for residents with an uncertified wood stove insert to upgrade to an EPA certified wood burning device or an

8B California Coronado City Council Approves Amendment To Timeshare Ordinance **RAWSEP View** A ban on all wood burning is a good idea **From the headline** Coronado Eagle 9 request to reconsider the Beach Fire Ordinance of the City of Coronado to discuss a potential amendment to extend the ban on wood burning fires to the jetty

9A Colorado Edwards USFS Muddy Sheep Prescribed Fire planned for five miles north of Edwards on Saturday Real Vail Prescribed fire smoke may affect your health For more information visit colorado dot gov pacific cdphe woods smoke and health

9B Colorado Drill and save the planet CALDARA Opinion Colorado politics dot com **RAWSEP View** Wrong Answer Colorado! This article is wrong in many ways! Say no to drilling for fossil fuel to burn to

unnecessarily pollute the air! Say no to burning wood to unnecessarily pollute the air! Say no to burning cow dung to unnecessarily pollute the air! There are clean energy Heat Pumps with Heat Pump Rebates in Colorado in 2025 which make clean energy solutions less costly than burning fossil fuels and solid fuels in 2025 **From the headline** Colorado Politics smoke just to cook meals for the family This indoor smoke pollution Burning wood pollutes less than burning cow dung Burning coal or

9C Colorado Mesa County No Burn Advisory extended due to air quality concerns Mesa County We also recommend that any residents with wood burning stoves or fireplaces limit their use of them at this time To prevent additional air

9D Colorado Teller County A small wildfire burning in Teller County started because a wood chipper caught on fire YouTube It was burning near the Dome Rock Trail but officials say that the fire is contained

10 Indiana Heat Pump Rebates Indiana opens up rebate program to help Hoosiers lower their energy bills carbon emissions WBAA Indiana residents can get up to \$8000 for a heat pump through the new state program Heat pumps are more energy efficient than other heating **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501c3 nonprofit organization** Indiana Public Radio May 19 2025 A Toshiba inverter heat pump sits outside of a building It is a rectangular box with a fan on its outside Indiana residents can get up to \$8000 for a heat pump through the new state program Heat pumps are more energy efficient than other heating systems because they transfer heat rather than create it Indiana residents can apply for money from the state to help make their home more energy efficient The Indiana Office of Energy Development opened up more than \$180 million in home energy rebates for Hoosiers last week The rebates can be used for everything from air sealing and insulation to appliances like water heaters and electric stoves The program is open to everyone including homeowners renters and landlords But how much of a discount you will receive depends on your income how many people you live with and how much energy the upgrade is expected to save The senior policy director with the nonprofit American Council for an Energy Efficient Economy said These rebates are going to help people lower their energy costs lower their bills at this particular moment when so many you know a third of households in this country struggle to keep the lights on he said **READ MORE** The Inflation Reduction Act spurred clean energy investment in Indiana Will it continue? The funding for the rebates comes from the federal Inflation Reduction Act Though there is still funding for state energy efficiency rebates House Republicans have threatened to cut federal energy efficiency tax credits

11 Maine Heat Pump Rebates Has Maine learned how to make heat pumps lower electricity costs for all? Maine Morning Star A low income household can get rebates of up to \$9000 for heat pump installations and homes at high income levels qualify for up to \$3000 Canary Media Heat pump adoption in the state has soared Now a new state energy efficiency plan aims to accelerate the trend to cut emissions and control power

12 Maryland Heat Pump Rebates Advocates Empower Maryland energy efficiency program provides savings to consumers PIRG rebates since there will be greater opportunity to achieve savings goals through fuel switching to heat pumps According to reports submitted

13 Nevada Washoe County NNPH Air Quality Division seeks applicants for Certified Wood burning Device Inspector Program Washoe Life Washoe County Knowledge of EPA certified wood burning devices and emissions standards Ability to provide impartial and professional inspections Willingness to be

14 New Mexico Raton Pallets Fire Sends Smoke High Above Raton Monday Afternoon KRTN Enchanted Air Radio Monday morning about eleven forty A M fire fighters were called to a huge fire on the Western Wood Products facility The World Journal According to Raton Fire Chief Anthony Burk the blaze started after hot high pressure hydraulic fluid spewed from a front end loader and ignited wood

15 Pennsylvania Heat Pumps As federal incentive rollbacks loom could the heat pump revolution stall out in Pennsylvania and elsewhere? Pennsylvania Capital Star The Heating Ventilation and Air Conditioning HVAC workforce in the United States is an aging one he said often uncomfortable with technologies like heat pumps which can both heat and cool air

16 Vermont Kick off to wildland fire season in Vermont Backyard burning reminders RAWSEP View Wrong Answer Vermont! Waste wood should be transported to a recycling center and not burned Burning all wood not only treated wood produces adverse health effects From the article Vermont Business Magazine Permission for backyard burning is granted when the Town Forest Fire Warden issues a burn permit wood waste from demolition activities at a Burning trash is prohibited including paper cardboard tires plywood press board asphalt shingles plastics treated wood Never leave a fire

17 Wisconsin Fond du Lac fire out Firefighters warn about the dangers of burning debris NBC26 The ordinance outlines specific regulations including permitted hours for burning and approved materials wood to be used no burning of

18 Southern Hemisphere PM TWO POINT FIVE and deadliness Heat and Pollution Events Are Deadly Especially in the Global South Eos dot org Source GeoHealth Small particulate matter PM TWO POINT FIVE in air pollution raises the risks of respiratory problems cardiovascular disease and even

19A United Kingdom UK could take more US wood pellets to burn for electricity amid trade talks RAWSEP View Wrong Answer United Kingdom! Wood is wood which pollutes the air when burned whether the wood is rare or ordinary wood The adverse health aspects of wood burning are being ignored in this article Do not use air polluting wood burning when the clean alternative of a Heat Pump is available with Heat Pump Rebates in the United Kingdom in 2025 based on a sliding income scale Heat Pumps in 2025 work down to 40 degrees below zero double as air conditioners and lower monthly electric bills immediately Wood burning emits 2 point 8 times the PM TWO POINT FIVE as the fossil fuel coal burning and Wood burning emits 450 times the PM TWO POINT FIVE as the fossil fuel natural gas burning These statistics come from testing the cleanest burning wood burning stove in the United Kingdom the Ecodesign wood burning stove Wood burning emits 90 percent PM TWO POINT FIVE particulate matter of 2 point 5 micrometer size the perfect size to infiltrate the human lung setting off a cascade of human health problems and early deaths From the Headline Yahoo News UK But the biomass sector has long faced accusations of sourcing and burning wood from environmentally important or rare forests Campaign and media

19B United Kingdom PM TWO POINT FIVE and cooking Understanding particulate matter emissions from cooking meals health impacts and policy ScienceDirect dot com Similarly the reduction in harm from cooking related PM TWO POINT FIVE exposure using various UK ventilation strategies was explored applying data from previous

20 Europe Heat Pumps Germany France and Poland could equip every energy poor home with a heat pump using European Environmental Bureau EEB A new study finds that investing just one third of the Social Climate Fund the EU could subsidize up to 20 million heat pumps across the EU by

21 Italy Heat Pumps Beretta unveils residential air to water heat pump PV Magazine The Italian manufacturer said its new R32 heat pump has a coefficient of performance of up to 5 point 2 and a heating capacity of up to 16 kW

22 Ghana Cooking with firewood similar to smoking two packs of cigarettes daily Doctor Danyoh MyJoyOnline Doctor Richard Bright Danyoh of the Ghana Pediatric Association has issued a strong warning about the dangers of traditional cooking methods

23 China PM TWO POINT FIVE and spatial scale Research on the influencing factors of PM TWO POINT FIVE in China at different spatial scales based on ScienceDirect dot com There are two main sources of PM TWO POINT FIVE Zheng et al 2017 one is the direct emission from pollution sources known as primary particulate matter the

24 PM TWO POINT FIVE and cost of air purifiers The cost of clean air Global disparities in reducing indoor wildfire related PM TWO POINT FIVE exposure Science Using air purifiers to reduce indoor exposure to wildfire related PM TWO POINT FIVE is effective but costly placing a disproportionately higher financial PM TWO POINT FIVE and costs Global disparities in indoor wildfire PM TWO POINT FIVE exposure and mitigation costs Science However the long term global population exposure to indoor fire PM TWO POINT FIVE and the economic burden of using air purifiers remain unknown Here we PM TWO POINT FIVE and mortality Association between ambient fine particulate matter constituents and mortality and morbidity ScienceDirect dot com We found that short term exposures to PM TWO POINT FIVE carbon containing constituents black carbon and organic carbon and metal iron showed the most consistent PM TWO POINT FIVE and pediatric respiratory infections The Global Burden of Pediatric Respiratory Infections Attributable to Long term Exposure to ScienceDirect dot com particulate matter PM TWO POINT FIVE However the overall burden of PM TWO POINT FIVE attributed RTIs is unclear due to the unavailable exposure–response function for PM TWO POINT FIVE and Stroke Global Changes in Ischemic Stroke Burden Attributable to Ambient PM TWO POINT FIVE PubMed Our findings highlight the substantial public health benefits of PM TWO POINT FIVE reductions in mitigating the IS burden While high income regions have