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heat pump UK Cold snap proves heat pumps keep homes just as warm and customers are even happier! [14B United Kingdom](#) heat pump rebate! The Feed In Tariff Is Dead! Long Live the Feed In Tariff! Solar Quotes! The Feed In Tariff FIT scheme which aimed to encourage renewable energy generation has been replaced by the evening battery feed in tariff! [14C United Kingdom](#) wood burning New ban hitting wood burners announced as fireplace rules made more strict! [14D United Kingdom](#) wood burning Why wood burning threatens the fight for clean air! [15 France](#) [RAWSEP View](#) The Sister Study in the US is cited in this article urging French women to stop or minimize wood burning for home heating! wood burning! Lung cancer risk rises with this common eco-friendly heating method scientists warn! [16 India](#) Fine Particulates are threats to the unborn! [17A China](#) six important cities in North China namely Beijing Tianjin Shijiazhuang Taiyuan Jinan and Zhengzhou! PM 2 point 5 news! A hybrid prediction model for PM 2 point 5 concentration based on high frequency and low frequency Intermolecular Forces IMFs with EMD Empirical Mode Decomposition! [17B China](#) Guangzhou PM 2 point 5 Key factors for selecting PM2 point 5 exposure assessment methods in epidemiological studies! [17C China](#) Adipose Browning metabolic disruption from exposure to fine particulates! [17D China](#) Differentiating Wood smoke PM2 point 5 from coal smoke PM2 point 5! [17E China](#) Shanghai Subway PM 2 point 5 A citywide spatiotemporal perspective of particulate matter concentration on underground transport! [18A Thailand](#) PM 2 point 5 Dust pollution levels again rising in Bangkok! [18B Thailand](#) Bangkok PM2 point 5 levels meet standards citywide Bangkok average at 24 point 3 micrograms per cubic meter! Google Alerts Main Content

[1A United States](#) heat pump Air Conditioning and Heat Pumps Shipments See Six Month Decline ACHR News The latest figures from the AHRI show shipments of a c units and heat pumps fell in November 2025 compared to the same time last year Air Conditioning Heating and Refrigeration News Shipments of air conditioning A C units and heat pumps have seen a six month decline in November 2025 compared to the same period last year Specifically A C shipments decreased by 11 point 3 percent while heat pump shipments fell by 5 point 7 percent This trend indicates a significant weakness in the residential cooling market with year to date shipments down 20 percent compared to November 2024

[1B United States](#) heat pump Heat pumps will soon be able to store and distribute heat as needed Tech Xplore Researchers have developed a heat storage unit that takes up less space than a regular hot water tank It charges when electricity is cheap and

[1C United States](#) A brutally hot summer is helped by heat pump functioning as an air conditioner heat pump Homeowner shares honest first impressions after brutally hot summer with a heat pump HVAC Yahoo! Shopping Meanwhile many other homeowners have been sharing how their heat pumps are saving them money while helping them cope with summer heatwaves [AI Overview](#) Homeowners have shared their first impressions of heat pumps after experiencing brutally hot summers Many have reported significant improvements in comfort and energy efficiency For instance one homeowner noted that their Bosch 20 SEER inverter heat pump has worked amazingly well and kept their home comfortable during a particularly hot July Another homeowner expressed satisfaction with their heat pump performance stating it has been heating the home nicely and is quiet and consistent These experiences highlight the effectiveness of heat pumps in managing summer heat and the potential savings in energy costs

[1D United States](#) Heat pumps are cost savers and more efficient and quieter than traditional systems heat pump Homeowner shares honest thoughts three months after revamping home with superefficient MSN One homeowner took to TikTok to share how his heat pump was saving him money and adding value to his home You may have heard some chatter about how! [AI Overview](#) Homeowners have shared honest thoughts three months after revamping their homes with energy efficient systems One homeowner praised a heat pump for its efficiency noting it keeps the home warm and is quieter than traditional systems He also highlighted cost savings stating he cut 13 thousand

dollars off the price with rebates and discounts Another homeowner expressed satisfaction with a Bosch heat pump stating it has been very comfortable and efficient especially during hot summers A Reddit user shared their experience with a heat pump noting it effectively maintained comfortable temperatures and was more efficient than their previous propane system Overall homeowners report significant savings on energy bills and improved comfort with energy efficient upgrades making them a popular choice for home renovations

1E United States Modern air source heat pumps are highly efficient even in low temperatures heat pump HVAC installers quickly debunk common heat pump myth with simple explanation The Cool Down Heat pumps are one of the best ways to lower your energy bills because they are so much more efficient than traditional heating and cooling methods **AI Overview** HVAC installers have quickly debunked several common myths about heat pumps providing simple explanations to help homeowners make informed decisions Here are some key points from their insights Noise Heat pumps are designed to operate quietly with noise levels comparable to or even lower than conventional air conditioners and furnaces Cold Weather Modern air source heat pumps are highly efficient even in low temperatures achieving performance coefficients COPs of 3 point 5 to 4 point 0 Cost While the upfront cost of a heat pump system can be higher than traditional heating systems the long term savings on energy bills often outweigh the initial investment Reliability Quality heat pumps come with comprehensive warranties and require minimal maintenance to ensure reliable performance Dual Functionality Heat pumps serve as both heating and cooling systems eliminating the need for separate units These insights aim to dispel the misconceptions surrounding heat pumps and encourage homeowners to consider this efficient and versatile heating and cooling solution for their homes

1F United States The Department of Energy DOE Tax Credit Lookup Tool can determine if new heating equipment is eligible for tax credits heat pump WEB Tax Credit Product Lookup Tool Regulations & Compliance Department of Energy **AI Overview** Department of Energy heat pump rebate WEB Tax Credit Product Lookup Tool Regulations and Compliance Department of Energy Select a product type below to begin your search Central Heat Pumps Heat Pump and Gas Water Heaters Central Air Conditioners Furnaces and Boilers The Tax Credit Product Lookup Tool is a valuable resource for homeowners and contractors seeking to qualify for the Energy Efficient Home Improvement Credit This tool allows users to determine if new heating air conditioning or water heating equipment is eligible for tax credits By entering specific product information the tool produces a single page report that can be printed or saved for future reference This tool is part of the Department of Energy efforts to make it easier for Americans to access federal tax credits for home upgrades which are available through the end of 2025 The tool is designed to help both contractors and homeowners understand the eligibility criteria for these credits enabling them to potentially save thousands of dollars on their home energy upgrades

1G United States This article settles for making a home safer when burning wood! The advice should be not to burn wood to begin with to protect the lives and health of your family as well as near neighbors! Stopping burning wood also contributes to slowing climate change! wood smoke **Before you light your fireplace** use these tips to make it safer for your lungs MSN What concerns lung health experts most? Wood burning fireplaces and stoves burn at relatively low temperatures producing smoke that contains a mix of! **AI Overview** Before you light your fireplace use these tips to make it safer for your lungs To ensure a safe and healthy environment when using your fireplace follow these tips to minimize the risk of lung irritation and trouble breathing Ensure proper maintenance Regularly check and maintain your fireplace to prevent smoke and contaminants from building up indoors Use smoke and carbon monoxide detectors These devices can alert you to dangerous levels of smoke and carbon monoxide which can be harmful to lung health Supervise children and pets Keep a close watch on children and pets around fireplaces to prevent accidental burns Install safety screens If you have a fireplace with glass doors use safety screens to prevent burns and reduce the risk of embers escaping **Use dry and well-aged wood Burning dry wood in your fireplace can reduce smoke and improve**

combustion making it safer for your lungs By following these tips you can enjoy a warm and comfortable home while keeping your lungs healthy and safe United States wood burning

1H United States Be aware of the drawback of wood burning! **Enjoy wood burning fireplace** but be aware of the drawbacks Press Reader Thanks to the physics of combustion wood emits 2 point 5 times more carbon dioxide than natural gas and 30 percent more than coal when burned for heat except in! AI Overview Enjoy wood burning fireplace but be aware of the drawbacks While wood burning fireplaces offer a cozy and inviting atmosphere they come with several drawbacks that homeowners should be aware of Maintenance Regular cleaning and maintenance are required to ensure safety and efficiency Health Concerns Wood burning fireplaces can release harmful pollutants and irritants into the air posing health risks especially for those with respiratory issues Safety Risks There is a risk of fire hazards and carbon monoxide poisoning if not used and maintained properly Environmental Impact Wood burning fireplaces contribute to air pollution and are not climate friendly Cost The initial investment cost is high and ongoing costs can include fuel maintenance and cleaning Seasonal Use They are not functional year round and may not provide significant heat in warmer months Homeowners should weigh these factors against their lifestyle and preferences before deciding to install or use a wood burning fireplace It is essential to consider the long term benefits and potential drawbacks to make an informed decision

2 California Redwood City How Quilt solved the biggest challenge of the heat pump which is cold weather! TechCrunch heat pump Quilt heat pumps are built containing a suite of sensors which have delivered mountains of data that allow its engineers to wring added **AI Overview** Tech Crunch The Quilt approach to solving the heat pump biggest challenge involves leveraging extensive data from its heat pumps to enhance performance and stability The company innovative use of sensors and real world operational data has allowed them to unlock additional capacity through software updates and to design a three zone heat pump that maintains efficiency even in demanding conditions This data driven strategy not only improves the heat pump capacity but also addresses the stability challenges that multi zone units face at low speeds By combining this data with design improvements Quilt has developed a heat pump system that operates efficiently even at very low temperatures delivering nearly 90 percent of its rated capacity without compromising low demand performance **Excerpts edited by RAWSEP for brevity clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization** Quilt website January 7 2026 Quilt launches 3 zone outdoor unit More homes more efficiency same smart technology Quilt first hardware expansion since launch brings industry leading efficiency to larger installations with competitive pricing Since launching in May 2024 Quilt has seen strong demand for whole home installations a rarity in the ductless heat pump market Our sleek design and intuitive room by room control make Quilt the first system homeowners actually want visible in every room driving broader adoption of complete home solutions Now we are making those whole home installs even more efficient with our new 3 zone outdoor unit the most efficient 3 zone ductless heat pump on the market Quilt heat pumps are built in Redwood City California The company cofounded by former Google Apple and Nest engineers is known for its innovative heat pump technology and smart home solutions Quilt heat pumps are designed to perform in extreme temperatures and are aesthetically customizable making them a popular choice for homeowners looking for efficient and stylish heating and cooling options

3A Colorado Cold Climate Heat Pumps! What Contractors Need to Know About Performance and Incentives! heat pump ACHR News Modern heat pumps are engineered for extreme cold yet misconceptions persist Field data and proper system design are changing how contractors Performance Incentives and Installation Considerations heat pump rebate Cold Climate Heat Pumps What Contractors Need to Know About Performance Incentives ACHR News By sizing systems correctly incorporating rebate programs into proposals and clearly communicating the benefits homeowners care about most **AI Overview** Contractors should be aware of the performance capabilities of cold climate heat pumps which can reliably heat homes in extreme cold conditions

These systems are designed to operate efficiently across a wide temperature range with inverter driven compressors allowing them to modulate output and maintain performance even in subzero temperatures. Contractors should also be familiar with the financial incentives available for installing cold climate heat pumps such as the Colorado Home Energy Rebate HEAR Program which offers significant rebates for eligible installations. These incentives can help offset the upfront costs and improve the return on investment ROI for homeowners. When selecting a cold climate heat pump contractors should consider the following factors:

Performance Metrics: Look for systems with high HSPF2 and COP ratings especially at low temperatures. These metrics indicate the system efficiency in transferring heat.

Installation Considerations: Contractors should assess the physical constraints and conditions of each home including insulation, air sealing, layout and historical energy use to ensure proper installation.

Incentives: Contractors should explain the financial incentives available and how they can help homeowners adopt cold climate heat pumps which can increase property value and provide energy savings. By understanding these aspects contractors can better inform their clients about the benefits of cold climate heat pumps and help them make informed decisions about their heating systems.

3B Colorado: Coloradans have fewer subsidies for solar and other clean energy appliances due to the early discontinuation of substantial tax credits! The Energy Efficient Home Improvement Credit and the Residential Clean Energy Credit which provided tax credits for various home efficiency measures and equipment were set to last until 2032 but ended on December 31, 2025! Colorado still offers options for subsidies through the Home Energy Rebate Program which provides income qualified Coloradans with up to 14 thousand dollars in discounts for electric energy appliances and home efficiency upgrades. The funding for this program comes from federal money preserved in the Inflation Reduction Act with Colorado receiving just over 140 million dollars to launch its program. The rebates are expected to be available through 2029 or until funding runs out!

heat pump rebate: Coloradans now have fewer subsidies for solar and other clean energy appliances. But they: Sources: Sky Hi News and Summit Daily. 14 thousand dollars of rebates for home upgrades. Up to 8 thousand dollars for a cold climate heat pump for space heating or cooling. Up to 4 thousand dollars for a breaker box.

Coloradans now have fewer subsidies for solar and other clean energy appliances. **AI Overview** Sky Hi News: Coloradans have fewer subsidies for solar and other clean energy appliances due to the early discontinuation of substantial tax credits. The Energy Efficient Home Improvement Credit and the Residential Clean Energy Credit which provided tax credits for various home efficiency measures and equipment were set to last until 2032 but ended on December 31, 2025. These programs were part of the 2022 Inflation Reduction Act aimed at incentivizing consumers to shift from fossil fuels. Despite the loss of these tax credits Colorado still offers options for subsidies through the Home Energy Rebate Program which provides income qualified Coloradans with up to 14 thousand dollars in discounts for electric energy appliances and home efficiency upgrades. The funding for this program comes from federal money preserved in the Inflation Reduction Act with Colorado receiving just over 140 million dollars to launch its program. The rebates are expected to be available through 2029 or until funding runs out.

3C Colorado: heat pump rebate. Getting the gas out! State clean heat mandate leans on electrification and raises cost concerns! The Grand Junction Daily Sentinel: heat pump rebates. Dennison said: Hess said she and her husband were able to take advantage of an Xcel rebate that made a big difference in the! **AI Overview** Source: The Colorado Springs Gazette. The Colorado Public Utilities Commission PUC has set new clean heat targets for natural gas utilities aiming to significantly reduce greenhouse gas emissions. These targets include a 41 percent reduction by 2035 nearly doubling the previous mandate. The PUC decision reflects a shift towards electrifying homes and businesses which could lead to increased costs for consumers. The new targets are part of a broader effort to phase out natural gas use entirely with utilities expected to plan for the elimination of their emissions by the middle of the century. Despite the challenges the PUC decision underscores the state commitment to reducing carbon emissions and transitioning to a more sustainable energy future.

3D Colorado heat pump rebate NEWS! What are Colorado Home Energy Rebate Programs? heat pumps and electric stoves! The program includes two main components Home Electrification and Appliance Rebates HEAR and HER Home Efficiency Rebates focuses on whole home energy savings! **AI Overview** Source PIRG which stands for Public Interest Research Group In Colorado it is referred to as the Colorado Public Interest Research Group CoPIRG which advocates for consumers and addresses issues affecting health safety and wellbeing CoPIRG works to promote solutions to problems that impact the public interest and encourages dialogue about improving the quality of life The Colorado Home Energy Rebate Program offers rebates for high efficiency electric appliances and whole home energy efficiency upgrades helping residents reduce energy costs and improve home comfort Overview of the Program The Colorado Home Energy Rebate Program administered by the Colorado Energy Office CEO provides financial incentives to eligible residents for making energy efficient upgrades to their homes The program includes two main components Home Electrification and Appliance Rebates HEAR This program supports the installation of high efficiency electric appliances and other upgrades Rebates are available for electric stoves heat pumps heat pump water heaters insulation and more Households can receive up to 14 thousand dollars in rebates depending on their income level and the type of upgrades made Home Efficiency Rebates HER This program focuses on whole home energy efficiency improvements which will be available for manufactured mobile homes and large multifamily buildings starting in early 2026 Eligibility Criteria Income Limits To qualify for the maximum rebate amount households must earn less than 80 percent of their county area median income AMI Households earning between 80 percent and 150 percent of the AMI can still qualify but will receive rebates worth up to half of the total project cost Home Type The program is available to homeowners in single family homes manufactured homes and renters with written permission from their landlords Application Process Check Eligibility Residents should first confirm their eligibility based on income and home type This can be done through the online application available on the CEO website Contact a Registered Contractor After confirming eligibility participants must work with a registered contractor who will help determine the necessary upgrades and guide them through the application process Submit Documentation Applicants will need to provide income verification documents as part of the application process Once approved the contractor will handle the installation and rebate application Benefits of the Program The Colorado Home Energy Rebate Program aims to lower upfront costs for energy efficient upgrades making homes healthier and more comfortable while reducing energy consumption This initiative is part of a broader effort to promote climate friendly practices and improve indoor air quality across the state The Cool Down For more detailed information including a list of registered contractors and specific rebate amounts you can visit the Colorado Energy Office website

4A Connecticut Hartford This article settles for making a home safer when burning wood! The advice should be not to burn wood to begin with to protect the lives and health of your family as well as near neighbors! Stopping burning wood also contributes to slowing climate change! wood smoke DEEP Reminds Residents To Use Best Practices When Wood Burning for Heat During Winter CT gov HARTFORD Winter is here and burning wood to keep a home warm is a long standing tradition in New England Depending on the source of the wood!

4B Connecticut Wilton and Ridgefield This article settles for making a home safer when burning wood! The advice should be not to burn wood to begin with to protect the lives and health of your family as well as near neighbors! Stopping burning wood also contributes to slowing climate change! wood smoke GOOD Home 5 Essential Tips to Prevent Smoke Damage in Wilton and Ridgefield Homes Good Morning Wilton Every wood burning fire produces creosote a sticky tarlike residue that builds up inside chimneys Over time creosote thickens and restricts the! **AI Overview** To prevent smoke damage in homes consider the following essential tips Fire Safety in Kitchens Keep cooking surfaces clear and use fire extinguishers Avoid leaving unattended pans or crowded countertops Electrical Safety Avoid overloaded outlets and unplug lights before going to bed Use surge protectors rated for indoor use Heating Safety Maintain a three foot safety zone around heaters and use models with

automatic shut off Schedule annual chimney cleaning Preventing Frozen Pipes Insulate exposed plumbing in garages basements and crawl spaces to prevent freezing during cold weather Immediate Action If smoke damage occurs assess the extent of damage ventilate the area and use appropriate cleaning methods Seek professional help if necessary These tips can help ensure your home remains safe and free from smoke damage

5 Kentucky Franklin County This article settles for making a home safer when burning wood! The advice should be not to burn wood to begin with to protect the lives and health of your family as well as near neighbors! Stopping burning wood also contributes to slowing climate change! Bald Knob wood smoke **Creosote buildup can lead to chimney** house fires State Journal wood burning stove fighting back the chill as smoke rises from the chimney It is that smoke slowly rising up that chimney as it cools on its way! wood burning! Creosote buildup can lead to chimney and or house fires! State Journal Chris Brown a captain with the Franklin County Fire Department talked about the dangers Creosote buildup comes from burning green wet wood said!

6 New York Long Island Consider installing a high efficiency air source heat pump with rebates available! Additional savings ideas rebate details and efficiency! PSEG Shares Tips to Lower Winter Energy Bills! Public Service Enterprise Group PSEG a company based in New Jersey supplies electricity to approximately 1 point 1 million customers in Nassau and Suffolk counties as well as the Rockaway Peninsula in Queens New York City heat pump rebate PSEG Shares Tips to Lower Winter Energy Bills South Shore Press **AI Overview** PSEG Long Island provides various tips to help customers manage their electricity expenses and lower their winter energy bills Here are some key strategies Seal windows and doorframes with weather stripping or caulk to prevent drafts that waste energy and money Use ceiling fans to save energy in winter by rotating clockwise to pull cool air toward the ceiling and push warm air down into the room Lower your thermostat by just one degree to potentially reduce your heating bill Lowering it two degrees during the day and five to 10 degrees at night will save even more Seal windows and doorframes with weather stripping or caulk to prevent drafts that waste energy and money Use ceiling fans to save energy in winter by rotating clockwise to pull cool air toward the ceiling and push warm air down into the room Lower your thermostat by just one degree to potentially reduce your heating bill Lowering it two degrees during the day and five to 10 degrees at night will save even more These tips can help customers save money on their electric bills during the winter months For more detailed information and additional tips customers can visit the PSEG Long Island website or contact their customer service

7 North Carolina and South Carolina Wildfire in Winter in Southern States of US! wood burning Wildfire burns across North Carolina South Carolina border WMBF Wood said the SCFC has three bulldozers on scene and a brush truck on the way A portion of the fire has been reported in Dillon County by McNeil Farm **AI Overview** The wildfires across the North Carolina South Carolina border have been a significant concern with multiple fires burning in the Carolinas The South Carolina Forestry Commission has reported that there are ongoing response operations to more than 175 wildfires impacting 42 hundred acres across the state The fires have threatened thousands of residents in populated areas with hundreds already displaced from their homes The wildfires have been fueled by dry windy conditions with February rainfall 1 point 5 to 2 point 5 inches below average in the Carolinas The South Carolina Forestry Commission has implemented a statewide burning ban and the state Forestry Commission has declared a State of Emergency to support wildfire response efforts

8A Oregon Bend wood smoke State issues air quality advisory through Monday Bend Bulletin Avoid using wood burning stoves and other sources of indoor smoke if possible Oregon **8B** Eugene wood smoke and wood burning Air quality alert Eugene residents urged to limit wood stove use Local KEZI The yellow level indicates poor airflow with lingering smoke advising residents to use electric or natural gas heating instead If wood burning is **8C** Oregon Klamath County wood smoke Air quality advisory for Lake County southern Klamath County and southern Deschutes Elkhorn Media Group smoke and other air pollutants near the ground where people breathe! Avoid

using wood burning stoves and other sources of indoor smoke if possible **8D** Oregon Lane County wood burning! LRAPA issues Yellow advisory for wood stove usage KLCC News Briefs LRAPA Lane Regional Air Protection Agency wood burning stoves Air Stagnation Advisory

9 Pennsylvania Altoona How New Heat Pump Technology Is Making Homes More Efficient and Cheaper to Run! heat pump WTAJ Heat pumps are not limited to wall mounted units anymore New systems can replace traditional furnaces especially in homes like double wide homes with

10 Utah heat pump As the temperature drops the humidity in the air decreases making defrosting Heat Pumps less necessary! Homeowner speaks out after spotting common trend among HVAC installers! A lot of them tell home owners to defrost Heat Pumps! The need to defrost is a myth! The Cool Down A recent TikTok video revealed a misconception about how the cold affects heat pumps debunking a common myth **AI Overview** A homeowner in Utah has spoken out after spotting a common trend among HVAC installers particularly in the midst of a cold snap The homeowner noted that many installers were advising heat pump owners to turn off their systems which is a misconception based on the need for defrosting maintenance As the temperature drops the humidity in the air decreases making defrosting less necessary This trend highlights the need for homeowners to be informed about the latest technology and practices in HVAC installation

11 Vermont and Upstate New York 2023 Wildfire example! PM 2 point 5 Wildfire Smoke Exposure Linked to Worse Pediatric Asthma Control! Pulmonology Advisor The association between asthma control and fine particulate matter PM 2 POINT 5 during the summer of 2023 was examined using PM 2 POINT 5 values obtained within **AI Overview** Wildfire Smoke Exposure Linked to Worse Pediatric Asthma Control The study published in Environmental Health indicates that wildfire smoke exposure is associated with worse pediatric asthma control The research found that **asthma control was significantly worse in the severely smoke affected summer of 2023** compared to the largely unaffected summers of 2022 and 2024 The study utilized electronic health records of youth aged 3 to 21 years diagnosed with asthma and assessed asthma control using three clinical measures The findings suggest that even wildfire smoke from hundreds of miles away can impact the health of a child particularly in areas like Vermont and upstate New York

12 Washington DC Status Of the Trump 2 thousand dollar Rebate Check Proposal! As of January 2026 the President Trump proposal to send Americans an up to 2 thousand dollar rebate remains only a proposal not a law or program! **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization** The Bay Net Washington DC January 9 2026 Status Of the Trump 2 thousand dollar Rebate Check Proposal As of January 2026 the President Trump proposal to send Americans up to 2 thousand dollar rebate or tariff dividend checks remains a proposal rather than an approved federal program with major hurdles ahead and widespread confusion over whether any payments will ever be issued About The Proposal Trump and some senior White House officials have publicly floated the idea of using revenue generated from the administration import tariffs to fund a onetime payment of roughly 2 thousand dollars per person to Americans under a certain income threshold Trump has referred to these potential payments as a dividend from tariff proceeds and suggested without specific details that checks could come as early as midyear As of now no federal stimulus program for two thousand dollar rebate checks has been passed by Congress and the Internal Revenue Service has not announced any plan to issue such payments Only Congress can authorize federal spending and no legislation has been passed to create or fund the rebates The IRS has also cautioned taxpayers to be wary of scams and misinformation related to potential stimulus or rebate checks Treasury Secretary Scott Bessent has reiterated that any tariff based rebate plan would require new legislation from Congress before it could be implemented undercutting expectations that the White House could unilaterally issue the checks Independent economists and budget analysts have raised questions about the feasibility of the plan Public estimates suggest that current tariff revenues would likely fall short of covering the cost of a broad two thousand dollar per person rebate which could amount to hundreds of billions of dollars and significantly impact

the federal deficit Legal questions also surround the tariffs themselves At the time of publication a case pending before the US Supreme Court could affect the administration authority to impose certain tariffs potentially impacting future revenue streams tied to the rebate concept The proposal has also encountered skepticism from both sides of the aisle Many Republican lawmakers in Congress have been reluctant to support a large rebate plan preferring to focus on deficit reduction or other policy priorities while their Democratic colleagues continue to oppose the tariffs and question the financial and political feasibility of the plan The Bottom Line No two thousand dollar rebate checks have been authorized or scheduled The idea remains a political proposal and not a law or IRS program Any future payments would require congressional approval funding and administrative planning Taxpayers should be cautious of scams claiming to offer early access or application opportunities As of early January 2026 Americans should not expect rebate checks in the mail or via direct deposit based on the current proposal alone Official government sources remain the most reliable channel for updates

13A Canada British Columbia Saanich heat pump rebate Clean BC rebates help Saanich Peninsula homeowners upgrade to efficient heat pumps! Peninsula News Review Local heat pump expert Mike Hipwell raising his family on the Saanich Peninsula helps homeowners access Clean BC and BC Hydro rebates Local expert [AI Overview](#) Programs & Rebates District of Saanich The District of Saanich offers various programs and rebates to assist homeowners in upgrading to efficient heat pumps These include up to 12 thousand dollars zero interest financing for heat pumps up to 55 hundred dollars for insulation improvements up to 1 hundred dollars per window and door upgrade and up to 2 thousand dollar bonus rebates for completing multiple upgrades Additionally there are GST/HST refunds for new or substantially renovated primary residences and mortgage loan insurance refunds up to 25 percent from CMHC or Sagen For more information on these incentives visit the District of Saanich official website

13B Canada British Columbia Take advantage of our heat pump rebates to bring efficient comfort year round to your home! Rebates are available for condos too! heat pump rebate 26 ways to a more fun healthier 2026 BC Hydro [RAWSEP Top Excerpt 5](#) Get efficient cooling in your home As summers get hotter is your home as comfortable as it should be? Are you tired of wheeling out portable A/C units into your living areas? Take advantage of our heat pump rebates to bring efficient comfort year round to your home Rebates are available for condos too Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization Source BC Hydro January 6 2026 26 ways to a more fun healthier 2026 Jaclyn turning down the thermostat Add energy savings to your list this year Join Team Power Smart take a reduction challenge and for a limited time chase double the reward 1 hundred dollars From lower bills to new tech to sport and adventure we have got you covered Good decisions big and small can enhance your wellbeing and crank up the fun in your life We are not talking walk 10 thousand steps a day resolutions but we are going to encourage you to stop putting off the things you know are good for you and for your community Here is a list of 26 ideas reminders and projects you may want to take on in 2026 Most items on the list will take you from a couple minutes to an hour to kick off while others might ask for a change in your routines or in how you get around town or stay comfy at home Tackle what you can and promise yourself to stick to it 3 Join Team Power Smart chase a 1 hundred dollar reward It takes a couple minutes to join it is free and it opens the door to member exclusive contests tips and more And if you join and start a 10 percent Reduction Challenge before January 31 2026 we will double our usual Challenge reward to 1 hundred dollars 5 Get efficient cooling in your home As summers get hotter is your home as comfortable as it should be? Are you tired of wheeling out portable A/C units into your living areas? Take advantage of our heat pump rebates to bring efficient comfort year round to your home Rebates are available for condos too! 6 Never stop at a gas station again Buy or lease an electric vehicle use our rebate to get a home charger and 80 percent to 90 percent of your charging will be done at home You will save lots on gas and when you hit the highway you can rely on increasingly fast charging options on our EV charging network 7 Make buy Canada your mantra This is going to be a

tough year for many Canadian businesses from your local restaurant and bike shop to furniture makers and food companies. Check labels do not be fooled by packaged U S produce with a Canada Organic label and find stores that go out of their way to stock Canadian products. Even Costco has started stocking the likes of Abbotsford One Degree Organics Farmers We Know rolled oats and granola to offer an alternative to popular US brands.

- 8 Challenge yourself to improve in a sport or discover a new one. If you golf and your handicap is not really improving you are not alone. Make 2026 the year you take quality lessons and or make visits to the local driving range a regular thing. Or save money and switch to the super social game of pickleball.
- 9 Get more house plants and treat them right. Do you love house plants but feel they do not love you? Take the time this year to choose the right plants for your home and show them love by taking proper care of them. There is lots of great advice online including specifics for homes in BC.
- 10 Find a workout you like and stick to it. Some of us are gym people some of us not so much. Some of us run others would rather bike skate go on long walks or play a sport. Find an activity you love and make it your thing.
- 11 Do the math on our time of day pricing. Our optional residential time of day pricing is great for some – especially electric vehicle owners. Use our rate estimator to find out if your energy use profile is a good fit which offers a 5 cents per kWh discount during overnight and other nonpeak periods.
- 12 Sign up for Peak Saver earn rewards. Earn rewards for shifting your energy use away from peak times. There are two ways to do it join Peak Saver challenges or enroll your eligible smart devices at 50 dollars per device type so that we can automatically adjust them during peak events.
- 13 Read more books watch less TV. Reading is so retro. Buck the trend away from reading by regularly borrowing print or electronic books from your local library joining a book club or carefully choosing books to buy and share. Cancel a streaming service or two and you will be able to afford it.
- 14 Make an e bike your second vehicle. Looking for a second car? Consider an e bike share or buying an e bike if all you need is a second option for getting to and from work or school. Do the math on whether carshare bus or commuter rail is the better option for you.
- 16 Eat more plants less meat. You will save money reduce your cholesterol and with the right balance you will feel better. Check out the Canada Food Guide healthy plate breakdown half veggies and fruits one quarter grains one quarter protein.
- 18 Give back to your community. Our food banks and many others in B C could use your help. Donate food money or your time as a volunteer. Find a BC food bank near you and learn about how you can make the biggest difference.
- 19 Get a free Canada Strong Pass and use it. During Canada Strong Pass periods no fees apply for admission for all visitors to all national historic sites national parks and national marine conservation areas operated by Parks Canada. You also get a 25 percent discount on camping and roofed accommodation fees when staying in a national park.
- 20 Try a new hobby. A Statista survey of Canadians early in 2025 showed that the most popular hobby in the country was cooking and baking followed by reading. What about knitting? Or learning to play a musical instrument? Challenge yourself in 2026 to try something new.
- 23 Stop scrolling. Oh the places you will go if you trade in that time spent scrolling on your device for something more rewarding. You could be journaling meditating stretching drawing learning a new language or calling a friend.
- 26 Make more time for friends and family. A 2022 Statistics Canada survey showed that in part due to the shift to remote and hybrid work schedules fewer than one in five Canadians saw friends on a typical day. And according to a 2024 YMCA survey 60 percent of us feel disconnected from our community. Inject some belonging in your life by reaching out to friends and family and recognize it is a cherished gift that works both ways.

13C Canada Quebec News about wood smoke! Residential wood burning is a major cause of air pollution! Observatoire de la prevention! How is air pollution from firewood dangerous? Smoke from burning wood consists of A complex mixture of gases such as nitrogen compounds NO NO2 **AI**

Overview Observatoire de la prévention Residential wood burning A major cause of air pollution Residential wood burning is a significant source of air pollution contributing to premature deaths and various health issues. The fine particulate matter PM emitted from wood combustion is particularly harmful as it accumulates in the body and can lead to chronic inflammation and the development of chronic lung and cardiovascular diseases as well as cancers. The World Health Organization WHO has

recognized air pollution as a major contributor to disease and premature death and it is the most significant environmental risk factor for human health. In Quebec an estimated 14 hundred premature deaths are attributed to air pollution linked to wood fires each year making it a leading cause of premature death in the province. The W H O 2018 review estimated that 9 million deaths are directly attributable to environmental pollution with indoor air pollution being the second leading cause. In Canada air pollution associated with residential wood burning caused 23 hundred premature deaths in 2015 with Quebec representing 60 percent of Canadian deaths. Efforts to reduce exposure by replacing old high emission wood stoves through education and incentives have been implemented but many heavily polluting devices are still regularly in use.

14A United Kingdom heat pump UK Cold snap proves heat pumps keep homes just as warm and customers are even happier! Octopus Energy New data shows heat pump customers were more comfortable than those with gas boilers during the latest cold snap. Nine out of ten heat pump owners **AI Overview** Gulf Oil and Gas The recent cold snap has proven that modern heat pumps are capable of keeping homes just as warm as gas boilers even during extreme cold weather. A survey conducted by Octopus Energy revealed that 85 percent of heat pump owners were satisfied with their heating performance during the cold snap compared to 80 percent of gas boiler users. Additionally 89 percent of heat pump customers reported satisfaction with their heating system while only 78 percent of gas boiler users were satisfied with their running costs. The introduction of the 7 thousand pound grant from the Boiler Upgrade Scheme and smart tariffs designed for heat pumps has made the cost of getting a heat pump often comparable to that of a new gas boiler. This data challenges the common belief that heat pumps struggle or become more expensive in cold weather and it highlights the benefits of modern heat pumps for British winters. **14B** United Kingdom heat pump rebate! The Feed In Tariff Is Dead! Long Live the Feed In Tariff! Solar Quotes! The Feed In Tariff FIT scheme which aimed to encourage renewable energy generation has been replaced by the evening battery feed in tariff! Until the rebate most home batteries were 10 to 15 kilowatt bought by Top 5 Heat Pump Brands Heat Pump Installation Heat Pump STC Calculator **AI Overview** Source Solar Quotes The Feed In Tariff Is Dead Long Live the Feed In Tariff The Feed In Tariff FIT scheme which aimed to encourage renewable energy generation has been replaced by the evening battery feed in tariff. This shift reflects the changing landscape of energy production and consumption. The FIT scheme which was open to applications until April 2019 has been replaced by new mechanisms that focus on the evening battery feed in tariff which is increasingly becoming the primary metric for **solar and or battery owners** to compare and choose retail plans. This change is reshaping how people approach energy production and how batteries are configured and utilized. The Feed in Tariff FiT scheme was a UK government initiative designed to promote renewable energy generation by providing payments to individuals and organizations for the electricity they produced and fed back into the grid. **AI Overview** An Overview of the FiT Scheme Introduction The FiT scheme was introduced on 1 April 2010 to encourage the uptake of renewable and low carbon electricity generation technologies. It required licensed electricity suppliers to make payments to participants for the electricity generated and exported by accredited installations. Eligibility The scheme was open to anyone who installed eligible renewable technologies such as solar panels wind turbines and anaerobic digestion systems. Installations could have a capacity of up to 5 megawatts. Payments Participants received payments based on the amount of electricity they generated and exported. Payments were made quarterly and were tax free. The duration of payments varied typically lasting between 10 to 25 years depending on the technology type and installation date. Closure of the FiT Scheme The FiT scheme closed to new applications on 1 April 2019. However individuals who signed up before this date can continue to receive payments for the duration of their contracts. Replacement The FiT scheme was replaced by the Smart Export Guarantee SEG in January 2020 which allows participants to receive payments for the electricity they export to the grid but with different terms and conditions. Impact and Legacy The FiT scheme significantly contributed to the growth of renewable energy generation in the UK with over 8 hundred thousand homes participating in the program.

It helped to lower carbon emissions and promote energy independence by encouraging individuals to generate their own electricity. The scheme closure has led to discussions about the future of renewable energy incentives in the UK with the SEG aiming to continue supporting renewable energy generation in a different format. For more detailed information you can refer to the official Ofgem website or other reputable energy suppliers that provide insights into the FiT scheme and its implications for renewable energy in the UK.

14C United Kingdom wood burning New ban hitting wood burners announced as fireplace rules made more strict! MSN A ban on some wood burning stoves could be introduced under new laws to tackle indoor pollution in the homes of people! Labor has this week unveiled **AI Overview** Express December 2 2025 The UK government has announced a new ban on some wood burning stoves and stricter rules for fireplace use as part of its Environmental Improvement Plan EIP. This plan aims to tackle indoor pollution in homes and includes a ban on older wood burners unless they meet new standards. Smoke Control Areas which limit the types of solid fuel that can be burned in log burners fireplaces and chimneys will also become more strict. The government is consulting on measures to reduce the environmental impact of public burning wood such as stoves and bonfires to minimize the impact on those who need to burn wood and respect traditional festivals. The target to cut PM 2.5 concentrations by 30 percent by 2030 compared to 2018 levels has been set with a fifth of PM 2.5 emissions in 2023 coming from domestic combustion.

14D United Kingdom wood burning Why wood burning threatens the fight for clean air! Open Access Government Jonathan Blades from Asthma Plus Lung UK explains the rising concern and health impacts related to air pollution caused by domestic wood burning. **AI Overview** Contribution to fine particulate matter PM 2.5 pollution Why wood burning threatens the fight for clean air Wood burning poses a significant threat to the fight for clean air due to its contribution to fine particulate matter PM 2.5 pollution which is a major contributor to air pollution and health issues. The combustion of wood releases harmful pollutants such as carbon monoxide nitrogen oxides and volatile organic compounds VOCs which can lead to serious health problems including respiratory diseases cardiovascular issues and cancer. The reliance on wood burning for heating and cooking in many households exacerbates the air pollution problem making it a critical issue for public health and environmental sustainability.

15 France **RAWSEP View** The Sister Study in the US is cited in this article urging French women to stop or minimize wood burning for home heating! wood burning! Lung cancer risk rises with this common eco-friendly heating method scientists warn! Futura The **Sister Study** a large American research project has shed light on how domestic wood burning harms respiratory health. It calls for a closer **From the article headline** wood smoke and wood burning Lung cancer risk rises with this common eco-friendly heating method scientists warn Futura But a major study has revealed a hidden danger women exposed to wood smoke have a 43 percent higher chance of developing lung cancer! wood burning harms **AI Overview** The risk of lung cancer has been linked to the use of wood burning stoves and fireplaces particularly for women who use them regularly. A study published in 2023 by the Sister Study found that women exposed to wood smoke have a 43 percent higher chance of developing lung cancer. This risk increases significantly for those who use wood heating more than 30 days a year reaching 68 percent. The study highlights the importance of considering the health risks associated with wood heating and the need for innovative solutions to mitigate these risks. **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization** Lung cancer risk rises with this common eco-friendly heating method scientists warn January 9 2026 by Futura Team Wood fires may warm the home and the heart but new research suggests they could also be heating up our risk of cancer. Roughly seven million French households rely on wood for heating long seen as a green and affordable option. But a major study has revealed a hidden danger women exposed to wood smoke have a 43 percent higher chance of developing lung cancer. This silent threat may be lingering in our living rooms. As winter pushes families to seek cozy cost effective heating biomass has made a comeback. Yet behind the comfort of a crackling fire lies a growing public health concern especially for women. An invisible risk inside our homes. The Sister

Study a large American research project has shed light on how domestic wood burning harms respiratory health. It calls for a closer look at how fine particles from stoves and fireplaces affect our lungs and our long term wellbeing. When wood burns it releases carcinogens that can build up indoors. According to Santé Publique France, residential wood heating is the largest source of fine particle pollution in the country responsible for 43 percent of all PM_{2.5} emissions! These microscopic particles penetrate deep into the lungs where they can trigger chronic and deadly diseases. The Sister Study followed 50 thousand American women whose sisters had been diagnosed with cancer. Participants shared details about their heating habits from how often they used wood to the type of system and fuel. Published in Environment International in 2023 the results confirmed a strong link between wood heating and serious lung conditions. The culprits? Polycyclic aromatic hydrocarbons benzene and 1,3-butadiene all toxic compounds that linger long after the fire goes out. In France alone indoor air pollution is linked to an estimated 40 thousand deaths every year. An American study confirms a direct link between indoor exposure to wood burning and serious lung diseases. This threat specifically affects women who statistically spend more time at home. Why women face greater risks. The 43 percent rise in risk applies primarily to women and for regular users more than 30 days a year the increase reaches 68 percent. Several factors may explain why women are more affected. They tend to spend more time at home which increases exposure to pollutants. In addition the airways of women are generally narrower making them more vulnerable to particles that lodge deep in the respiratory system. The World Health Organization now ranks indoor air pollution among the top ten causes of death worldwide. How to protect your health. Giving up wood heating entirely may not be realistic but there are ways to minimize the danger without sacrificing comfort. Experts recommend airing out your home for at least 10 minutes morning and evening. Cleaning and sweeping chimneys twice a year. Choosing Flamme Verte certified stoves and inserts. Burning only dry untreated wood with less than 20 percent moisture. Mixing heating sources to limit how often wood is used. The National Housing Agency of France even provides financial aid to help replace polluting systems with cleaner ones like heat pumps or pellet stoves both of which cut harmful emissions while maintaining strong energy efficiency. The evidence is clear rethinking how we heat our homes has become not just an environmental issue but a critical health priority. What feels natural and sustainable might in reality be clouding the air we breathe. 16 India Fine Particulates are threats to the unborn! PM_{2.5} Silent threats before birth Air pollution and climate risks for infants. The Daily Star. Ambient fine particulate matter PM_{2.5} tiny particles less than 2.5 microns in diameter produced mainly by burning fossil fuels and biomass poses a **AI Overview**. Silent threats before birth Air pollution and climate risks for infants. The Daily Star coverage on air pollution and climate risks for infants highlights the significant impact of these factors on prenatal and postnatal health. The study published in PLOS Global Public Health indicates that higher in utero exposure to PM_{2.5} is associated with increased risks of low birth weight and preterm birth particularly in northern districts of India. The research underscores the need for public health interventions including stricter emission standards and climate adaptation measures to protect vulnerable populations and improve birth outcomes. 17A China six important cities in North China namely Beijing Tianjin Shijiazhuang Taiyuan Jinan and Zhengzhou! PM_{2.5} news! A hybrid prediction model for PM_{2.5} concentration based on high frequency and low frequency Intermolecular Forces (IMFs) with EMD (Empirical Mode Decomposition)! Nature. PM_{2.5} Particulate Matter less than 2.5 micrometers is the main cause of haze weather especially high concentrations of PM_{2.5} can have a! Title: A hybrid prediction model for PM_{2.5} concentration based on high frequency and low frequency IMFs with EMD decomposition. Ping Wang Qingdong Wu & Guisheng Zhang. Scientific Reports. Article number: 2026. Abstract. PM_{2.5} Particulate Matter less than 2.5 micrometers is the main cause of haze weather especially high concentrations of PM_{2.5} can have a significant impact on normal production and daily life. The developed heavy industry in North China has led to poor air quality characterized by high concentrations of pollutants and frequent pollution incidents. The research on the prediction of PM_{2.5}

concentration in North China is of great significance for the prevention and control of air pollution nationwide. In this article, hourly PM_{2.5} data from six important cities in North China, namely Beijing, Tianjin, Shijiazhuang, Taiyuan, Jinan, and Zhengzhou, were used as the basic dataset. Empirical Mode Decomposition (EMD), Long Short-Term Memory (LSTM), Support Vector Machine (SVM), and Autoregressive Integrated Moving Average (ARIMA) were mixed to establish a PM_{2.5} hourly prediction model (Hybrid EMDHL). Compared with the single prediction model, the hybrid prediction model significantly improved the prediction accuracy of PM_{2.5} concentration. Specifically, in multiple data experiments, the directional indicator (DA) of the hybrid prediction model is higher than 0.69, showing better direction prediction ability, which is of practical significance for the prevention and control of air pollution in North China.

AI Overview A Hybrid Prediction Model for PM_{2.5} Concentration Based on High Frequency and Low Frequency. The hybrid prediction model for PM_{2.5} concentration based on high frequency and low frequency signals utilizes a combination of machine learning techniques to enhance the accuracy of PM_{2.5} concentration predictions. This model employs a convolutional neural network (CNN) to extract image features through transfer learning, followed by a random forest (RF) model for feature evaluation. The extracted image features are then combined with meteorological data and pollutant concentration data to simulate PM_{2.5} concentrations. The performance of the model is evaluated using a random forest (RF) model for the low frequency signal and a Lasso regression model for the high frequency signal, resulting in superior simulation results. The most influential features for the high frequency signal include PM_{2.5} concentration from the Institute of Biological Products (IBP) and temperature (TEM), while for the low frequency signals, features from the Lanlian Hotel (LH) and PM_{2.5} concentration from the Institute of Biological Products (IBP) are significant. This model demonstrates a cost-effective method for accurately estimating PM_{2.5} concentrations, addressing the environmental and social concerns posed by PM_{2.5} pollution.

17B China, Guangzhou, PM_{2.5}. Key factors for selecting PM_{2.5} exposure assessment methods in epidemiological studies! Nature. Exposures to air pollutants such as fine particulate matter (PM_{2.5}) have been widely associated with cardiorespiratory mortality.

AI Overview Source: US EPA. When selecting PM_{2.5} and ozone exposure assessment methods in epidemiological studies, several key factors should be considered: Measurement Accuracy. The accuracy of the measurement method is crucial. Station-monitored methods may provide a reasonable proxy for personal exposure, especially in studies with minimal indoor PM_{2.5} sources. However, this may not be suitable for ozone due to its high spatial variability and potential differences in exposure to ozone-derived reaction products. Data Reliability. The reliability of the data collected is essential. Personal measurements can yield different results from station-monitored methods, and the association between personal and stationary concentrations should be analyzed in studies. Health Outcomes. The association between personal air pollutant exposures and stationary concentrations should be compared to assess the impact on cardiorespiratory responses. This comparison can help determine the most appropriate measurement method for the objectives of the study. Environmental Conditions. The choice of measurement method should also consider the environmental conditions under which the measurements are taken, as these can influence the accuracy and reliability of the data. Study Design. The study design should align with the objectives of the research, ensuring that the chosen methods are suitable for the specific aims of the study. By carefully considering these factors, researchers can select the most effective methods for assessing PM_{2.5} and ozone exposure, contributing to a better understanding of the health impacts of air pollution.

17C China. Adipose Browning: metabolic disruption from exposure to fine particulates! PM_{2.5} PTG-Dependent Glycogen Metabolic Dysfunction Drives Impaired Adipose Browning. A Wiley Advanced Fine particulate matter (PM_{2.5}) contributes to metabolic dysfunction, but its effects on adipose tissue browning remain unclear. Here we showed! Abstract. Fine particulate matter (PM_{2.5}) contributes to metabolic dysfunction, but its effects on adipose tissue browning remain unclear. Here we showed that PM_{2.5} exposure inhibited inguinal white adipose tissue (iWAT) browning by

downregulating protein targeting to glycogen PTG disrupting glycogen homeostasis PTG overexpression in iWAT restored glycogen metabolism thermogenesis and mitochondrial function reversing PM 2 POINT 5 induced impairment in iWAT browning and metabolic disorders Mechanistically PTG negatively regulated vascular endothelial growth factor B VEGFB and VEGFB knockdown rescued browning Activation of β 3 adrenergic receptor ADRB3 mitigated the effects of PM 2 POINT 5 by restoring PTG and normalizing VEGFB defining the ADRB3 PTG VEGFB axis as central to PM 2 POINT 5 induced metabolic dysfunction Our findings identify adipose glycogen metabolism as a target for countering environmental metabolic disruption **17D** China Differentiating Wood smoke PM2 point 5 from coal smoke PM2 point 5! PM 2 POINT 5 Identification and validation of marker compounds for fine particle emitted from sub type! Nature Here PM 2 POINT 5 samples from the combustion of ten biomass types were collected and 102 chemical components were analyzed Results indicated that the AI Overview The identification and validation of marker compounds for fine particles emitted from various sub types are crucial for understanding the sources and impacts of air pollution **Abstract Excerpts edited by RAWSEP for brevity clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization** Source differences in the components and cytotoxicity of PM 2 POINT 5 from **biomass burning** contributing to urban aerosol toxicity China Abstract Although air quality guidelines generally use the atmospheric concentration of fine particulate matter PM 2 POINT 5 as a metric for air pollution evaluation and management the fact cannot be ignored that different particle toxicities are unequal Since the combustions of fuels **including biomass** are the main **anthropogenic** sources of environmental PM 2 POINT 5 their discrepant contributions to health risks of mixed ambient aerosol pollution dominated by the respective emission intensity and unequal toxicity of chemical components need to be identified In order to quantify the differences between these combustion primary emissions 10 types of PM 2 POINT 5 from each typical source group **including plant biomass domestic biofuel burning** were collected for comparative study with toxicological mechanisms In total 30 types of individual combustion samples were intercompared with representative urban ambient air PM 2 POINT 5 samples whose chemical characteristics and biological effects were investigated by component analysis carbon metals soluble ions and in vitro toxicity assays cell viability oxidative stress inflammatory response of human lung adenocarcinoma epithelial cells A549 Carbonaceous fractions were plenteous **in biomass burning** The overall ranking of mass normalized cytotoxicity for source specific PM 2 POINT 5 was automobile exhaust greater than coal combustion greater than **domestic plant biomass burning greater than** ambient urban air possibly with differential toxicity triggers and showed that the **carbonaceous fractions organic carbon OC elemental carbon EC** might play important roles in inducing cellular reactive organic species ROS production causing oxidative stress and inflammation resulting in cell injury and apoptosis and **thus damaging human health** Coupled with the source apportionment results of typical urban ambient air PM 2 POINT 5 in eastern China **reducing toxic PM 2 POINT 5 from these anthropogenic combustions will be greatly beneficial to public health** In addition to the air pollution control measures that have been implemented like switching energy from coal to gas and electricity and **controlling the open incineration of agricultural straws** further methods could be considered especially by preferentially lessening the coal combustion by replacement with low ash clean coals and **depressing the rural crop straw biomass burning emissions** **17E** China Shanghai Subway PM 2 point 5 A citywide spatiotemporal perspective of particulate matter concentration on underground transport! Nature This study investigates IAQ in the Shanghai subway system through year round monitoring of PM 2 POINT 5 and PM10 across representative stations **18A** Thailand PM 2 point 5 Dust pollution levels again rising in Bangkok! The Bangkok Post The outlook until Jan 9 is for PM 2 POINT 5 concentrations to decrease with atmospheric ventilation good to weak and strong winds on some days From January **18B** Thailand Bangkok PM2 point 5 levels meet standards citywide Bangkok average at 24 point 3 micrograms per cubic meter! Nation Thailand The Bangkok Air Quality Information Centre reported on the situation of particulate matter PM 2 POINT 5 in the city on Wednesday January 7 2026 at 7 a m!