

Episode 57DHWB June 3 2025 UK target is at least 600000 heat pumps installations per year by 2028

In Episode 57DHWB 1 North America 2 United States 3 California 4 Colorado 5 Florida 6 Indiana 7 Michigan 8 New Jersey 9 Ohio 10 Oregon 11 South Carolina 12 Tennessee 13 Washington 14 Wisconsin 15 Canada 16 United Kingdom 17 Belgium 18 China 19 PM two point five and human health 20 Wood Smoke and human health Main Content

1 North America Heat Pumps North America Heat Pumps Analysis report 2025 50 billion dollars GlobeNewswire The North America Heat Pumps Market is driven by rising energy costs environmental concerns and supportive government incentives

2A United States Heat Pumps Homeowners stunned by little known system that cuts energy costs here is how to find out Yahoo Why are there so many heat pump incentives? In short both the federal government and most states offer incentives on heat pumps because they are a

2B United States Heat Pumps Interactive Heat Pumps The Future of Smart Efficient Climate Control phcp pros As someone excitedly and passionately involved in the geothermal and heat pump industry I am eager to share insights about interactive heat pumps

2C United States Heat Pumps WEB Planning change to make installing heat pump easier for millions X

2D United States Heat Pumps What are heat pumps and how much do they cost? Yahoo Heat Pumps Heat pumps run on electricity instead of gas They warm buildings by absorbing and amplifying heat from the air ground or water

2E United States Heat Pump rebates Are Clean Energy Tax Credits a Thing of the Past? Kiplinger Apply for the High Efficiency Electric Home rebate Program which offers qualifying homeowners rebates on stoves heat pump water heaters electric

2F United States Heat Pump rebates This small but mighty tax credit is boosting U S solar manufacturing but it is at risk EnergySage Explore heat pumps the latest in clean

2G United States PM two point five Association of ambient fine particulate matter and its chemical constituents with preterm birth BMC Pregnancy and Childbirth BioMed Central We performed a sibling matched cohort study to explore the association between PM TWO POINT FIVE constituents and the risk of PTB Changes in PM TWO POINT FIVE and the

3A California Amador County Pacific Fire Wood burning Breaking Pacific Fire reported in Amador County on May 28 Merced Sun Star Pacific Fire has been burning on private land At this time there Breaking Wood Fire reported in Fresno County on May 28

3B California Amador County Petersen Fire Wood burning Breaking Petersen Fire reported in Amador County on May 28 Merced Sun Star Petersen Fire has been burning on private land At this time the Breaking Wood Fire reported in Fresno County on May 28



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3C California Amador County Petersen Fire Wood burning Breaking Petersen Fire reported in Amador County on May 28 San Luis Obispo Tribune Petersen Fire has been burning on private land At this time the Wood Fire reported in Fresno County on May 28

3D California Butte County Bell Fire Wood burning Breaking Bell Fire reported in Butte County on May 28 Merced Sun Star Bell Fire has been burning on private land Breaking Wood Fire reported in Fresno County on May 28

3E California Fresno County Wood burning Breaking Wood Fire reported in Fresno County on May 28 Fresno Bee Wood Fire has been burning on private land Currently there is no data on the containment status of the fire and the cause has yet to be determined

3F California Loma Linda Wood smoke As wildfire season approaches doctors warn parents to be ready for asthma flare ups News Loma Linda University smoke are triggering an increase in asthma attacks and do not use wood burning stoves furnaces or fireplaces

3G California Los Angeles Wood burning Breaking New wildfire reported in Los Angeles County on May 28 Merced Sun Star Wildfire breaks out in Los Angeles County CA Merced Sun Star The wildfire has been burning on private land Wood Fire reported in Fresno County on May 28

3H California Madera County Wood burning Breaking New wildfire reported in Madera County on May 28 Merced Sun Star The wildfire has been burning on private land Currently there Wood Fire reported in Fresno County on May 28

3i California Merced County and Fresno County Wood burning Breaking New wildfire reported in Merced County on May 28 Merced Sun Star The wildfire has been burning on private land At this time the Breaking Wood Fire reported in Fresno County on May 28

3j California Mountain View Heat Pump rebates rebates for residents What green incentives are available this spring? Mountain View Voice Heat pump HVAC rebate residents can get up to \$2500 Heat pump water heater rebate residents can earn a rebate of up to

3K California San Bernardino County Wood burning Breaking New wildfire reported in San Bernardino County on May 28 San Luis Obispo Tribune The wildfire has been burning on private land Wood Fire reported in Fresno County on May 28

3L California San Francisco PM two point five California homeowners to change landscaping due to zone zero rules San Francisco Chronicle The California Zone Zero regulations are expected to ban grass and wood fencing within 5 feet of homes Burning regulations How did the requirement come about? With the exception of large trees all plants within 5 feet of the home must be removed or replanted elsewhere Zone Zero also must be kept clear of bark mulch wood chips leaf litter and other dead or dying plant material Hardscape materials like gravel pavers flagstones rock or concrete are allowed in Zone Zero

4 Colorado Denver Canada Wood smoke Winds push smoke from Canadian wildfires south into US and worsen air quality 9News Avoid heavy exertion outdoors using fans or swamp coolers that take air from outside all wood burning appliances and lighting candles and incense



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Changes to planning rules are hoped to encourage greater take-up of heat pumps. (Stock image: PA)

5 Florida Tampa Bay Heat Pump rebates This is a great time to get a heat pump installed in your home Fox 13 News Jessical Dalton spokesperson for Rocky Mountain Power says They have already jumped through the hoops to make sure they are rebate experts so you

6A Indiana Terre Haute Heat Pump rebates Terre Haute residents eligible for Energy Saver Program Local News cnhnews dot com CNHI News The first the Home Efficiency rebate is available to all Indiana Heat Pump Sustainable Technologies Energy Conservation 6B Indiana Terre Haute Heat Pump rebates City of Terre Haute announces new energy savings program WIBQ It provides rebates for purchasing and installing energy efficient appliances and necessary electrical upgrades Eligible items include heat pump

7A Michigan Detroit Canada Wood smoke Canadian wildfire smoke expected to affect air quality in Southeast Michigan on May 30 Detroit Free Press Activities that contribute to air pollution like outdoor burning and use of residential wood burning devices should be reduced or stopped

7B Michigan Grand Rapids PM two point five Comparing this smoke plume to the smoky summer of 2023 wzzm13 dot com WZZM 13 PM TWO POINT FIVE or fine particulate matter PM TWO POINT FIVE is a very very tiny particulate

7C Michigan Grand Rapids Canada Wood smoke Cool and quiet start to June as wildfire smoke lingers WOODTV dot com As June begins wildfire smoke lingers with temperatures on the cooler side TODAY Hazy skies some sunshine emerging LOW 39 HIGH 68 WIND

7D Michigan Canada Wood smoke Hazy skies ahead Wildfire smoke moving into Michigan Friday YouTube of a cold front May 29 2025 Hazy skies ahead Wildfire smoke moving into Michigan Friday

8 New Jersey Canada Wood smoke Dense smoke from Canadian wildfires is blowing into U S The Washington Post Man charged with starting New Jersey wildfire by burning wood pallets

9 Ohio Columbus Canada Wood smoke Central Ohio air quality worsens due to Canadian wildfire smoke The Columbus Dispatch It is also recommended to set your air conditioning system to recirculate and avoid burning candles vacuuming and using gas or wood burning stoves

10 Oregon Multnomah County Portland Wood burning To fight homelessness Multnomah County commissioner proposes slashing sustainability office KGW The office also advocates for changing laws that impact the environment for example the Multnomah County wood smoke ordinance which prohibits wood burning PORTLAND Oregon With Multnomah County in the midst of significant budget cuts one commissioner has proposed slashing the county Office of Sustainability in order to preserve funding for homeless services Environmental advocates argue that this would be a crippling blow to a small but mighty agency If we lose that we are losing that proactive effective work to protect our community from the climate crisis that we are in said Mary Peveto Peveto co founded Neighbors for Clean Air a grassroots advocacy organization based in downtown Portland that has been around for 15 years

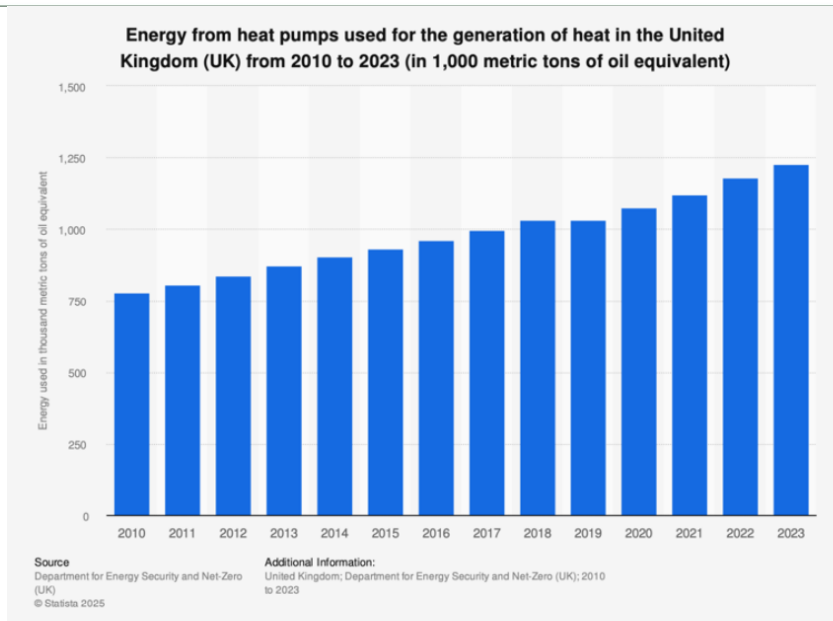
11 South Carolina Canada Wood smoke Wildfire smoke to blame for hazy skies this weekend in South Carolina Spectrum News reduce or eliminate activities that contribute to air pollution such as outdoor burning and use of residential wood burning devices Below shows the



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Take-up of heat pumps is rising, but the government would like to see even more people make the switch. (Statista)



12 Tennessee Nashville PM two point five AIR QUALITY ADVISORY Wildfire smoke prompts expanded warning FOX 17 particulate matter referred to as PM TWO POINT FIVE When [PM TWO POINT FIVE] moves into the area there is no chemical reaction Hengesbach said Sunlight does not

13 Washington Bellingham Heat Pump rebates Washington Homeowners Tap Into HVAC rebates to Boost Efficiency and Cut Costs My Bellingham Now Installing a heat pump system not only provides efficient heating but also offers high efficiency air conditioning since heat pumps handle both

14 Wisconsin Milwaukee Canada Wood smoke Wildfire smoke from Canada blankets Milwaukee skies WISN It actually is burning wood but not from anywhere near here Wildfires Milwaukee residents experienced hazy skies and the smell of smoke Friday as

15A Canada British Columbia PM two point five Association of Long Term PM TWO POINT FIVE and Its Components Exposure with Ovarian ScienceDirect dot com PM TWO POINT FIVE exposure alone or combined raises the risk of OHSS The 1 year before oocyte retrieval are key for OHSS risk

15B Canada Ontario Ottawa Kitchissippi Ward Heat Pump rebates Financial incentives make improving energy efficiency in your home even more attractive Kitchissippi Times heating to a heat pump system The money applies to both the purchase The Ottawa loans can be combined with other energy efficiency rebate incentive

15C Canada Prince Edward Island Heat Pump rebates P E I government reducing many of its energy efficiency rebates as of Monday CBC The heat pump rebate for residential properties is set to decrease from heat pump rebate increasing from \$600 to \$900 rebates are also

15D Canada Prince Edward Island Heat Pump rebates rebate changes coming to heat pumps solar EVs in P E I Saltwire However heat pump rebates for residential properties will be changed from \$1200 to \$900 per mini split heat pump and from \$2400 to \$1800 for lower

15E Canada PM two point five How air quality is measured when wildfire smoke rolls in CTV News So let us say that the PM TWO POINT FIVE is 60 That means that out of a million molecules of dry air 60 of those will be particulate matter two point five Desjardins

16A United Kingdom Heat Pumps The heat pump guide everything you need to know The Guardian Heat pumps take heat from outside make it warmer and transfer it into a building to provide heating and hot water Depending on the type pumps can

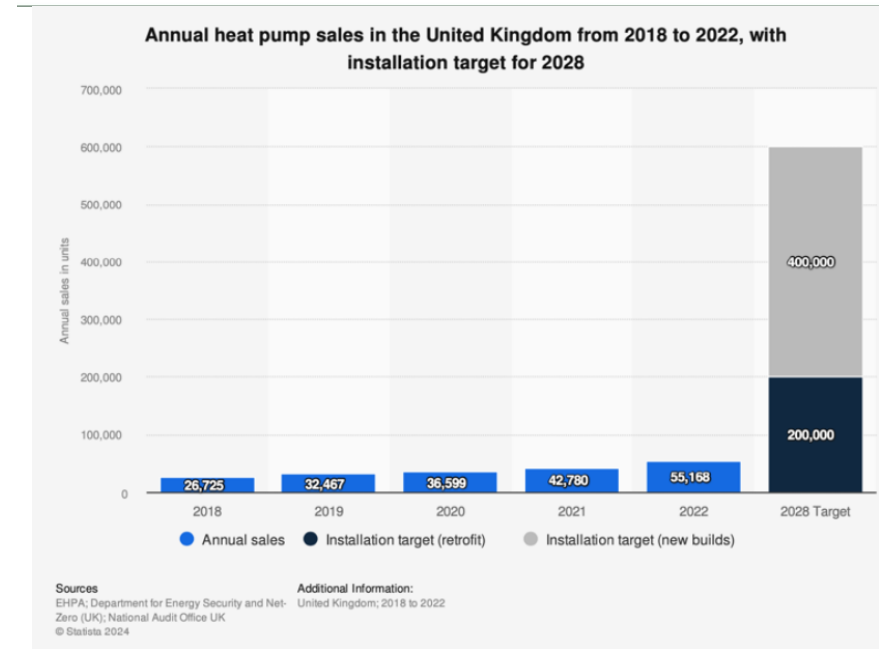
16B United Kingdom RAWSEP View UK target is at least 600000 heat pumps installations per year by 2028 Heat Pumps Planning change to make installing heat pump easier for millions BBC The rule requiring planning permission if a heat pump is within 1 meter of property of a neighbor property has been removed Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501c3 nonprofit organization MSN A planning restriction that prevented heat pumps being installed within a meter of property of a neighbor has been removed A change to planning rules is set to make it easier for heat pumps to be installed in homes Previously a key planning restriction meant heat pumps had to be 1 meter from the property of a neighbor but the government has changed the rule in a bid to encourage the take up of the technology The change is part of the government Warm Homes Plan which aims to cut emissions but also lower household bills The



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Figures on heat pump sales in the UK, along with the 2028 installation target. (Statista)

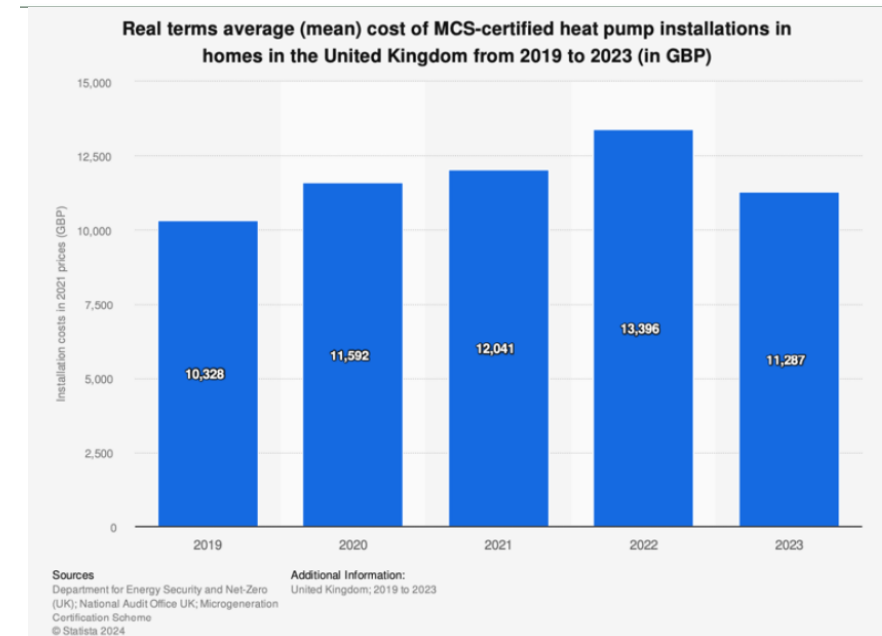
Government has targeted a UK market for heat pumps delivering at least 600000 installations per year by 2028 meaning the changes could affect millions of people over time Most homes currently use gas boilers and heating systems but heat pumps run on electricity taking in heat from the air or ground and amplifying it using a heat exchanger However they are not cheap to install and campaigners have warned that while changes to planning laws may encourage some homeowners to switch it will not necessarily help people who rent or those in leasehold properties especially in older houses where a new system might also need new pipework or insulation **Consumer groups warn that the biggest barrier to installing a heat pump remains the high upfront costs** Why are heat pumps so important? Heat pumps are seen as one of the key measures that could help reduce UK emissions and are a priority for the government Their importance to emission reduction was highlighted in a report from the Climate Change Committee CCC in February in which it presented what it called a new pathway to a decarbonized UK saying it would result in cheaper bills energy security and more private sector investment In the plans it said 14% of emissions reductions by 2040 could be achieved through residential buildings thanks to new and replacement homes using low carbon heating installations mainly heat pumps Heat pumps have also been touted as potentially saving cash for households many of whom are facing prohibitively expensive energy bills A representative from The Eco Experts said the move could be vital to meeting government targets on heat pumps **Removing the 1 meter rule is a brilliant and critical step from the government and if it does reach its target of installing 600000 heat pumps a year by 2028 we could look back and view it as a vital move** It means it is less likely that planning applications will be rejected and fewer consumers will drop out of the process of having one installed Every opportunity to get people to upgrade to a heat pump must be taken Figures suggest that as many as 34% are put off from installing a heat pump because of planning rules The Government should seize this opportunity to expand the Boiler Upgrade Scheme further and facilitate financing options for consumers to install heat pumps The planning permission change comes after the government announced steps to encourage households to take up measures that would deliver cleaner heating in November last year The steps are part of the ongoing rollout of the Warm Homes Plan Octopus Energy told the Energy Security and Net Zero ESNZ Committee in 2023 that the 1 meter rule was instrumental in putting people off having a heat pump saying **27% of customers its customers had been requested to obtain planning permission** It said many customers had decided against heat pumps when they become aware of the planning permission requirements and those who had tried to proceed ended up **waiting an extra eight to 10 weeks** on average adding that the combined impact of all these things mean that very few of the 27% of customers who require planning have made it to install **In November 2024 the government said it would be allowing more households in England to install an air source heat pump without the need to submit a planning application from early next year by removing the rule requiring them to be installed at least one meter from the boundary of a property** This will provide greater flexibility with rules still in place around listed buildings How many UK homes have heat pumps? The take up of heat pumps may be slower than targets but is rising As of 2023 the total number of certified heat pumps installed across the UK surpassed 200000 according to figures from the MCS Foundation the main certification scheme of the UK It said 2023 saw a nearly 20% jump in certified heat pump installations compared to the previous year The UK had seen its busiest ever start to the year for low carbon heat pump installations up by one quarter on the previous year Data suggested that through January 4743 of the devices were installed under the MCS which accounts for the vast majority of heat



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Figures outlining the real terms average cost of having a heat pump installed. (Statista)

pumps across the country. Meanwhile 21% of the new home market in the UK had a heat pump installed that month up from 11% in January 2024. In April government figures said heat pumps had a record 4028 applications received in March which is up 88% on the same month last year. Homeowners could expect to pay £6500 to £11500 for a heat pump. We recommend getting 3 installers quotes. The Boiler Upgrade Scheme is a grant system that helps with the cost of the installation of a heat pump. Based on current energy prices heat pumps can save a typical gas household around £234 per year when they opt for smart electricity tariffs and remove the gas meter. Modern well optimized heat pumps perform well at higher temperatures but households may wish to consider cost effective insulation and some radiator swaps to reduce running costs further.

16C United Kingdom Heat Pumps What are heat pumps and how much do they cost? BBC Heat pumps run on electricity instead of gas. They warm buildings by absorbing and amplifying heat from the air ground or water. They are widely used. 16D United Kingdom Worcester Heat Pumps Cooler and warmer Heat pump demand is reaching new heights as customers seek to use. Worcester Business Journal. Despite concerns about impacts of tariffs and cuts to federal incentives heat pumps are becoming standard equipment in the heating and cooling.

17 Belgium Brussels Heat Pumps How do heat pumps work and are they worth the investment? The Brussels Times. A heat pump is a heating system that runs on electricity and works. A third option for a hybrid system is to opt for air to air heat pumps that. 18A China PM two point five Asymmetric effects of natural and socioeconomic factors on PM TWO POINT FIVE pollution in Chinese counties. Nature. We developed a spatial zoning plan for 2851 counties in China using annual average PM TWO POINT FIVE remote sensing data from 2000 to 2015. Geographic detectors. 18B China PM two point five Characteristics seasonal variations and major sources of underivatized free amino acids in ScienceDirect dot com. PM TWO POINT FIVE samples in rural coastal Qingdao. Other FAAs could not be measured in PM TWO POINT FIVE because the analytical method used here may not be very.

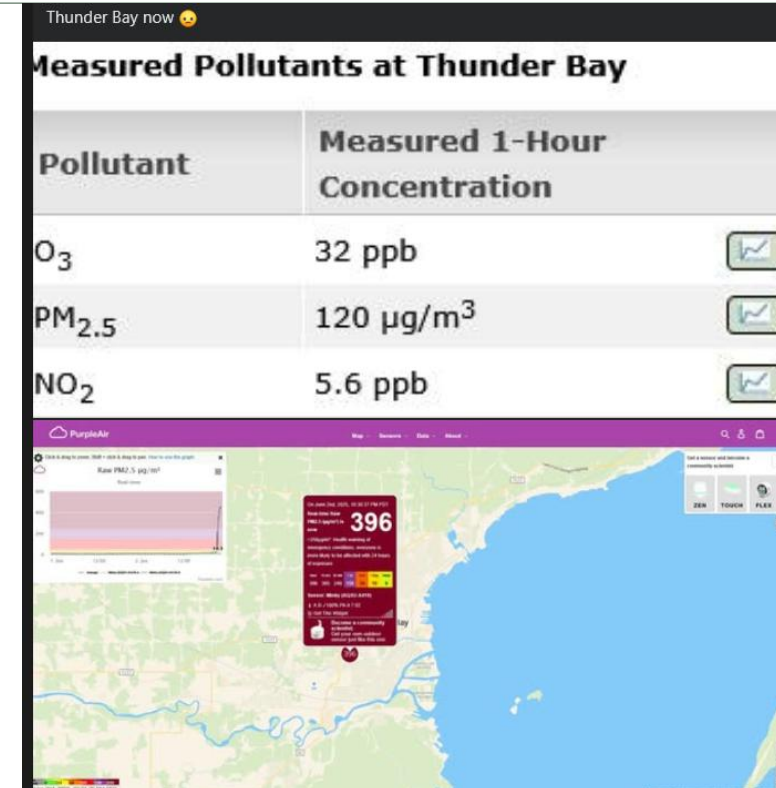
19A PM two point five Cardiorespiratory effects of wildfire smoke particles can persist for months even after a fire. Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501c3 nonprofit organization. Medical Xpress. Being exposed to lingering fine particulate matter PM TWO POINT FIVE from wildfire smoke can have health effects for up to three months afterwards. Exposure to lingering fine particulate matter PM TWO POINT FIVE was associated with increased hospitalization risks for most cardiorespiratory diseases. Respiratory Therapy the RT. Three Key Takeaways. Prolonged Health Risks. Exposure to wildfire smoke PM TWO POINT FIVE can significantly increase the risk of cardiovascular and respiratory conditions for up to three months after a fire far exceeding previous estimates. Vulnerable Populations at Greater Risk. People living in disadvantaged or vegetated areas and those with a history of smoking are more susceptible to the lingering effects of smoke related pollution. Urgent Need for Updated Strategies. The study calls for a shift in wildfire and air quality management emphasizing prolonged public health protections like masks and HEPA filters even after fires are extinguished. Being exposed to lingering fine particulate matter PM TWO POINT FIVE from wildfire smoke can have health effects up to three months afterwards well beyond the couple of days that previous studies have identified and the exposure can occur even after the fires have ended according to a new study in Epidemiology. This medium term exposure to PM TWO POINT FIVE from wildfire smoke was associated with increased risks for various cardiorespiratory conditions.



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including ischemic heart disease cerebrovascular disease arrhythmia hypertension pneumonia chronic obstructive pulmonary disease and asthma PM TWO POINT FIVE is a mixture of tiny particles and a major component of wildfire smoke Compared to non smoke PM TWO POINT FIVE smoke PM TWO POINT FIVE is smaller in size and is considered more dangerous because it is richer in carbonaceous compounds which are more likely to induce oxidative stress and inflammation and thus pose a greater threat to public health The study also showed larger effects in neighborhoods with more vegetation or more disadvantages for example lower education more unemployment lower housing quality and higher poverty as well as among people who have smoked at any point in their life **This is the first study to examine the medium term health effects of wildfire smoke** It is also the first to comprehensively assess its impact on all major types of cardiovascular and respiratory diseases Even brief exposures from smaller fires that last only a few days can lead to long lasting health effects In total 13755951 hospitalizations for cardiovascular diseases and 7990910 for respiratory diseases were recorded among residents of all ages across the 15 US states Arizona Colorado Delaware Georgia Iowa Kentucky Michigan Minnesota North Carolina New Jersey New York Oregon Rhode Island Washington and Wisconsin They were linked across time and location using residential addresses to smoke PM TWO POINT FIVE exposures between 2006 and 2016 Among the conditions studied hypertension showed the greatest increase in hospitalization risk associated with smoke PM TWO POINT FIVE exposure Wildfires can burn for weeks to a month and smoke PM TWO POINT FIVE may linger in the air for extended periods which may keep the air toxic even after a wildfire has ended said the corresponding and first author on this research Current wildfire strategies are outdated and ineffective **For example prescribed fires can reduce wildfire risk but are mainly used to protect property rather than public health** Greater effort should be placed on wildfire management rather than relying solely on traditional air quality control strategies in response to the increasing wildfire activity **As wildfires become more frequent and intense and their burden on human health becomes clearer addressing the health impacts is a critical public health priority** said the Dean for Public Health and Chair of the Department of Public Health at the Mount Sinai Icahn School of Medicine The public and clinicians should take preventive measures during and after wildfires such as wearing masks and using high efficiency particulate air HEPA filters which are becoming more affordable Findings from this study underscore the need to continue such preventive measure for a prolonged period after the fires have ended Collaborative efforts across federal state and local levels are essential to safeguard the health of communities nationwide 19B PM two point five Efficient field correction of low cost particulate matter sensors using machine learning mixed Nature Most of the current research on PM Particle Matter pollutants concentrates on fine PM TWO POINT FIVE particles of diameter below two point five micrometer This is because small

19C PM two point five Prenatal exposure to PM TWO POINT FIVE constituents and newborn leukocyte telomere length in a ScienceDirect dot com Prenatal exposure to fine particulate matter PM TWO POINT FIVE is related to alterations in newborn telomere length TL an indicator of cellular aging 20 Wood smoke Long term cardiorespiratory effects of wildfire smoke exposure revealed News Medical dot net Compared to non smoke PM TWO POINT FIVE smoke repeated exposure to eucalyptus wood smoke alters pulmonary gene and metabolic profiles in male Long Evans rats



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Dogwood Alliance

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Jesup, GA & surrounding communities – Make your voice heard.

Georgia Power wants to build a massive biomass burner in Jesup that would pollute the air and raise electr... See more