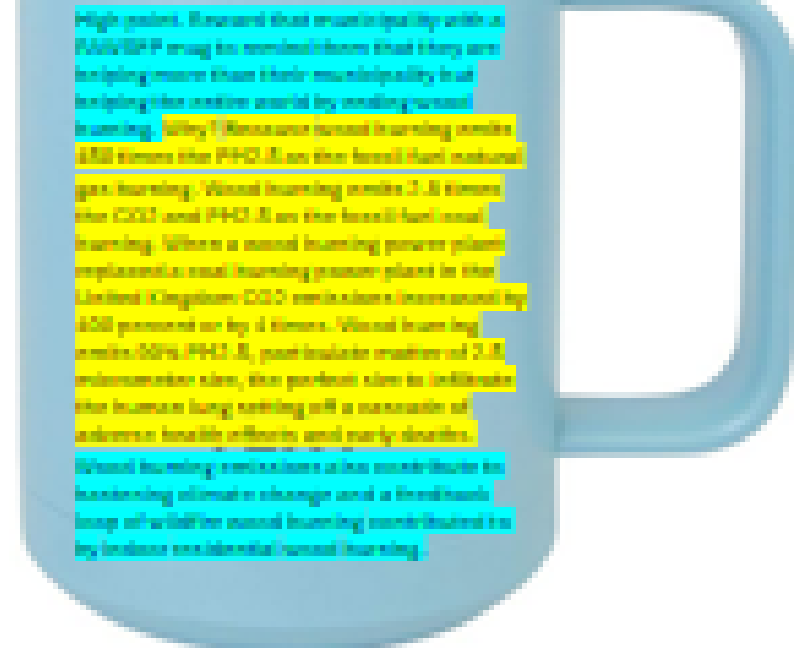


In Episode 56ZB Part 2 Headlines. 1 United States 2 Alabama 3 Arkansas 4 California gets RAWSEP Coffee Cup as Prize. 5 Illinois 6 Minnesota 7 Nebraska 8 Minnesota 9 New York 10 North Carolina 11 Pennsylvania gets RAWSEP Coffee Cup as reminder. 12 Texas 13 Canada 14 United Kingdom 15 Europe 16 Germany 17 Iran 18 India 18F India. **Delhi to Install 80 AntiPM2.5Smog Guns at 13 Pollution Hotspots Amidst Rising Smog Levels.** 18j India. Open Burning. **haze episodes in January 2021 were highly affected by biomass burning likely from the burning wood.** 19 PM2.5 and human health. In Episode 56ZB Part 3 Extended RAWSEP Commentary, 1 The Netherlands. Utrecht in the Netherlands to outlaw wood stoves by 2030. Part 3, 2 California. Poor or homeless wood burners are being given alternatives to indoor residential wood burning by the poor, or outside wood burning by the homeless, in Los Angeles. Part 3, 3. The United Kingdom and California. **RAWSEP View.** Indoor residential wood burning is a public health issue. Public health authorities should take responsibility for stopping this air polluting form of home heating. Part 2. Main Content Headlines. 1A United States. Millions of Americans can get paid to make this bill slashing home renovation 'It's like magic'. The Cool Down. Heat pumps are growing in popularity across the U.S. as a cost saving sustainable way to heat and cool homes. 1B United States. Millions of Americans could benefit by making this smart home upgrade. The Cool Down. Heat pumps are an energy efficient alternative to furnaces and air conditioners that can heat and cool your home. Heat pumps don't generate heat. Learn how heat pumps can save you hundreds of dollars on your energy bill according to Department of Energy research. 1C United States. You can get paid \$10,000 for this cost cutting home upgrade The Cool Down. Millions of families across the US qualify for an \$8000 heat pump rebate. here's how to claim yours. MSN. According to the IEA heat pumps specifically are up to five times more efficient than traditional HVAC systems saving you a ton of money over the. 1D United States. You could get \$4,000 for a new breaker box courtesy of the US government Yahoo. Making energy efficient upgrades is one of the best ways to slash your home energy costs. MSN. Making energy efficient upgrades is one of the best ways to slash your home energy costs. The government is giving away free money to help you update. 2 Alabama Birmingham. Rainbow City Fire Dept. warning about dry weather conditions PM2.5, WBRC. When wood is burning as. 3 Arkansas. Air quality advisory issued for Central Arkansas. The Arkansas Democrat. PM2.5 particulate matter 2.5 micrometers in diameter or smaller having the most risk. "Some particles less than 10 micrometers in diameter can get deep. 4A California. California Hotel Converts to Heat Pump Water Heaters Contractor Magazine. But for A. O. Smith it was the perfect opportunity to showcase the power of the CHP120 Fully Integrated Commercial Heat Pump Water Heater HPWH. 4B California. Imperial Valley Imperial Irrigation District. **RAWSEP View.** High point. Reward that municipality with a RAWSEP mug to remind them that they are helping more than their municipality but helping the entire world by ending wood burning. Why? Because wood burning emits 450 times the PM2.5 as the fossil fuel natural gas burning. Wood burning emits 2.8 times the CO2 and PM2.5 as the fossil fuel coal burning. When a wood burning power plant replaced a coal burning power plant in the United Kingdom CO2 emissions increased by 400 percent or by 4 times. Wood burning emits 90% PM2.5, particulate matter of 2.5 micrometer size, the perfect size to infiltrate the human lung setting off a cascade of adverse health effects and early deaths. Wood burning emissions also contribute to hastening climate change and a feedback loop of wildfire wood burning contributed to by indoor residential wood burning. IID paying double rebates on energy efficient appliances in October. The Desert Sun. Want an air conditioner that really works or a better swamp cooler to combat scorching desert heat? If it's energy efficient and you pay your. 4C Mariposa County Now Accepting Applications for



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the Woodsmoke Reduction Program. Sierra Sun Times. woodPM2.5burning stoves fireplace inserts or fireplaces used as a primary source of heat with a cleaner burning and more efficient heating device. 4D California. Matsui Applauds Launch of California Home Energy Rebate Program. West Sacramento News Ledger. SACRAMENTO CA MPG On Oct. 8 Congresswoman Doris Matsui CA07 released the following statement after California launched the first phase of its. 5 Illinois Chicago. Extra alarm fire damages cabinet manufacturer in Chicago suburb CBS News. For 60 years the family-owned business has provided custom cabinets. Fire officials said the wood at the facility was what fueled the fire. New Lenox. The smell of the burning wood permeated throughout the neighborhood. The smell was horrible, horrible, Karen said. Where it upset my stomach. 6 Minnesota. Burning bans enacted in Minnesota due to dry weather PM2.5 YouTube. Burning bans enacted in Minnesota due to dry weather. 1K views · 6 hours ago Survival Instructor Explains How to Start a Fire WITHOUT wood! 7 Nebraska. Game and Parks open fire ban continued. Sandhills Express. Transportable wood fueled firepits with grills or mesh metal covers. Woodburning stoves. Charcoal grills. Fire pans. Permitted sources are devices. A temporary ban on campfires at all Nebraska state park areas and wildlife management areas remains in effect until further notice after activation this past Friday. Nebraska Game and Parks indicated in a press release that camp stoves using liquid or gas fuel are permitted as they reduce the likelihood of ash or hot charcoal being discarded before they are extinguished. They also do not produce blowing embers which further reduces wildfire potential. Visitors to Nebraska Game and Parks areas should be mindful of changing conditions and stay tuned to local emergency managers and fire departments for regional fire ban updates. 8 Minnesota. Superior National Forest Wildfires Fact Sheet. Superior National Forest News & Events. fire. Wood Lake Fire Information. The Wood Lake Fire received similar rain from the past weekend's weather system that moved through the Arrowhead. Superior National Forest Wildfires Facts Sheet Red Lake Nation News. Red Lake Nation News. The Wood Lake Fire received similar rain from the past weekend's Check the statewide fire danger and burning restriction webpage for more. 9A New York. Brush blazes plague firefighters. Mid-Hudson News. Never toss fireplace or wood burning stove ashes out of doors unless they are completely saturated. The chief described brush blazes as being. 9B New York. Burn illegally in Brookhaven get fined Daily Leader. ordinances on burning brush rubbish trash or garbage. City Code 22173 and 22174 prohibit the burning of any wood trash papers rubbish or. 9C New York. How Times Readers Made the Switch to Heat Pumps. The New York Times. Some noted that their homes had solar panels creating free electricity that made their switch to a heat pump especially rewarding financially. 10 North Carolina Charlotte. Officials warn against heating harm in Hurricane Helene's wake. WFAE. Officials note that for those using woodburning heat sources the presence of excess smoke could indicate danger. Residents are urged to avoid. 11 Pennsylvania. **RAWSEP View.** Low point. Give that municipality a RAWSEP mug to remind them that wood burning emits 450 times the PM2.5 as the fossil fuel natural gas burning. Wood burning emits 2.8 times the CO2 and PM2.5 as the fossil fuel coal burning. When a wood burning power plant replaced a coal burning power plant in the United Kingdom CO2 emissions increased by 400 percent or by 4 times. Wood burning emits 90% PM2.5, particulate matter of 2.5 micrometer size, the perfect size to infiltrate the human lung setting off a cascade of adverse health effects and early deaths. From the article headline. Municipal roundup. New Beaver adopts burning ordinance Local News. New Castle News. burn wood and trees from the former golf course there but were stopped by the DEP. The borough received a cost estimate of some \$550,000 to fix a. New Beaver Borough council adopted a new burning ordinance during its meeting on Monday. Councilman David Badger said the ordinance allows residents to burn household and yard waste, but not items like chemicals, paint and tires. Burning was previously outlawed. What was illegal is now OK. 12A Texas.

Low point. Give that municipality a RAWSEP mug to remind them that wood burning emits 450 times the PM2.5 as the fossil fuel natural gas burning. Wood burning emits 2.8 times the CO2 and PM2.5 as the fossil fuel coal burning. When a wood burning power plant replaced a coal burning power plant in the United Kingdom CO2 emissions increased by 400 percent or by 4 times. Wood burning emits 90% PM2.5, particulate matter of 2.5 micrometer size, the perfect size to infiltrate the human lung setting off a cascade of adverse health effects and early deaths.



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Don't move firewood prevent the spread of invasive pests and diseases TFS. Forest Service. PM2.5 Texas A&M University. Even wood that looks clean and healthy may still have insect eggs or burning firewood locally. For more information about firewood visit. 12B Texas. Texas has been slow to roll out Biden's energy rebates for homeowners. Houston Chronicle. Experts say the hundreds of millions in rebates allotted for Texas homeowners would reduce the strain on power grids in heat waves and winter. 13A Canada British Columbia Kelowna. Prescribed burning taking place in Lake Country Thursday Kelowna News Castanet.net Earlier this month the BC Wildfire Service said the project will include the burning of about 100 piles of wood throughout October. The District. 13B Canada Newfoundland and Labrador. Deer Lake fire contained after destroying landmark hotel CBC News. A view from a street looking at a building. Behind it there is smoke and. The fire that broke out at Deer Lake's Driftwood Inn in the early morning. 13C Canada Ontario. New heat pump rebate available for Peel York homeowners. York Region News. The IESO's new heat pump rebate is offering up to \$10,000 for eligible Mississauga Brampton Caledon and York Region homeowners to install heat. 14 United Kingdom. Massive Polesworth blaze sent plume of smoke into the sky PM2.5 Coventry Telegraph. Police find van held together by 'cable ties and wood screws' in Nuneaton traffic stop. 15 Europe. EU tightens air quality standards as part of commitment to improving health.. The BMJ. particulate matter PM10 and PM2.5 that member states can produce. States are expected to meet these targets. 16A Germany. BASF to build world's most powerful heat pump. Cooling Post. heat pump. The heat pump will use waste heat from steam cracker for CO2free steam production at its Ludwigshafen site. Construction is due to. BASF receives funding for world's largest industrial heat pump PV Magazine. The planned heat pump will have a capacity of up to 500000 metric tons of steam per year. It will use waste heat generated during the cooling and. BASF plans to construct the world's largest industrial heat pump for CO2free steam generation. Chemical Engineering. The planned heat pump will have a capacity of up to 500000 metric tons of steam per year. The waste heat which is used as a thermal energy source. BASF gets funding approval for world's largest industrial heat pump for CO2free steam generation. World Pumps. from the German Federal Ministry for Economic Affairs and Climate Action for the construction of the world's most powerful industrial heat pump.16B Germany Nuremberg. Chillventa 2024 Danfoss Announces Prototype Residential R290 Heat Pump with 130g Charge. Natural Refrigerants. The water to water heat pump has a capacity of 4.7kW and a COP of 3.85 and comes in a size comparable to a 1.5L water bottle.17A Iran Mashhad. Estimating the burden of diseases attributed to PM2.5 using the AirQ + software in Mashhad. Nature. Long term exposure to fine particulate matter or PM2.5 is associated with a significant burden of disease including ischemic heart disease IHD. 17B Iran Mashhad. Assessing the impact of meteorological factors and air pollution on respiratory disease mortality rates. Nature. **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates, a 501c3 nonprofit organization.** The information related to pollutants such as PM2.5 which is defined as particulate matter with less than 2.5 micrometer diameter and. Furthermore, the study observed a notable increase in the mortality rate of respiratory patients over time. Specifically, for every five days, the death rate increased by 35.5%. Indeed, climate change and air pollution significantly contribute to the mortality rate from respiratory diseases. This study employs the RF statistical model to investigate the influence of meteorological parameters (pressure, temperature, humidity, solar radiation) and air pollutants (CO, NO2, SO2, PM2.5, PM10) on respiratory disease mortality rates in Mashhad from 2017 to 2021. The research aims to highlight the significance of these parameters in environmental health assessments and to estimate their impact on respiratory-related deaths. This underscores the intricate relationship between climatic factors, air pollution, and human health. Conclusion. The RF model successfully identified the relationship between

meteorological factors, air pollution, and mortality rates, demonstrating high accuracy. The interplay of climate change and air pollution significantly impacts respiratory disease mortality, with PM<sub>2.5</sub>, PM<sub>10</sub>, and NO<sub>2</sub> being particularly harmful. This underscores the need for comprehensive strategies to mitigate the health impacts of environmental pollutants. Policymakers should enforce stricter air quality regulations, and public health initiatives must raise awareness and provide protective measures. Further research is essential to explore long-term effects and develop effective interventions.

18A India. 3 in 10 Delhi PM<sub>2.5</sub> NCR Families Have Members With Sore Throat Breathing Difficulty Reveals Survey. News18. On Saturday Delhi's Anand Vihar reported PM<sub>2.5</sub> of 326 and PM<sub>10</sub> levels of 654 prompting the Commission for Air Quality Management CAQM to. 18B India. Delhi's AQI soars to 292 likely to rise more PM<sub>2.5</sub> Hindustan Times. DSS stated that farm fires contributed to only around 0.6% of the Capital's PM<sub>2.5</sub> levels. Forecasts by the Early Warning System EWS for Delhi. 18C India. Delhi breathes hazardous air as AQI declines to 'very poor' at 334 PM<sub>2.5</sub> Business Today. This effort aims to reduce particulate matter in the environment and mitigate dust pollution. PM<sub>2.5</sub> and PM<sub>10</sub>. To combat road dust effectively the. 18D India. Delhi chokes as overall AQI drops to 293. The Economic Times. One of the major contributors for the increase in increases PM<sub>2.5</sub> and PM<sub>10</sub> levels are construction and demolition sites. Teams will ensure that. 18E India. Delhi's Smog Crisis Why We All Play a Part in the Fight for Cleaner Air Outlook Business. This is over and above the pollution each year during Diwali. These are the major culprits for Particulate Matter PM<sub>10</sub> and PM<sub>2.5</sub> levels which have. 18F India. **Delhi to Install 80 Anti-PM<sub>2.5</sub> Smog Guns at 13 Pollution Hotspots Amidst Rising Smog Levels.** Times of India. Delhi Pollution Control Committee DPCC and Central Pollution Control Board CPCB identified the 13 hotspots in Delhi in 2018 as the annual PM<sub>2.5</sub>, 18G India. Delhi's winter woes begin PM<sub>2.5</sub> Daily Pioneer. According to the AQICN at 7 pm the fine particulate matter PM<sub>2.5</sub> which leads to haze was alarmingly high in different areas of Delhi including. 18H India. Knowledge Nugget of the day. Graded Response Action Plan GRAP PM<sub>2.5</sub> The Indian Express. The pollutants measured include PM<sub>10</sub> PM<sub>2.5</sub> Nitrogen Dioxide Ozone Carbon etc. So, PM<sub>10</sub> and PM<sub>2.5</sub> are smaller than 10 and 2.5 microns in. 18I India. Layer of grey haze returns to haunt Delhi Hindustan Times. PM<sub>2.5</sub> load. This was followed by emissions from Gautam Budh Nagar 11.70% Bulandshahr 9.45% and Ghaziabad 7.7%. Another 3.2% of the. 18J India. Open Burning. **haze episodes in January 2021 were highly affected by biomass burning likely from the burning wood.** The Hidden Crisis Fueling Air Pollution in Delhi. Delhi News. PM<sub>2.5</sub> Times of India. An IIT PM<sub>2.5</sub> Delhi study in 2021 found that haze episodes in Jan were highly affected by biomass burning likely from the burning wood coal or roadside. 18K India. Toxic Winter Smoke Begins To Sweep Across Northern India Court Calls For Government Action. Health Policy Watch. PM<sub>2.5</sub> and PM<sub>10</sub> concentrations from 2019-2023. However, most of that While we are seeing a drop in PM<sub>2.5</sub> mainly coming from the dust. 19A PM<sub>2.5</sub> and Glaucoma. Association of Ambient Air Pollution Exposure With Incident Glaucoma IOVS. ARVO Journals. Of particular concern among pollutants is particulate matter with an aerodynamic diameter less than 2.5 μm PM<sub>2.5</sub> known for its capacity to. 19B PM<sub>2.5</sub> and lung transplant. Air Pollution Risky After Lung Transplant MedPage Today. Patients were assigned zip code level annual PM<sub>2.5</sub> exposure estimates beginning the year of transplant using previously published annual estimates. 19C PM<sub>2.5</sub> and ovarian cancer. Increased Ovarian Cancer Risk Linked to Elevated Nitrogen Dioxide Exposure Study Finds. American Journal of Managed Care. However, one recent study found a positive association between county level estimates of ambient particulate matter PM<sub>2.5</sub> and ovarian cancer. 19D PM<sub>2.5</sub> and physical activity. Impact of physical activity levels on the association between air pollution exposures and. Environmental Health BioMed Central. Levels of particulate matter with aerodynamic diameters ≤ 10 μm PM<sub>10</sub> and ≤ 2.5 μm and nitrogen dioxide NO<sub>2</sub> were significantly associated with.