

In Episode 56ZH 1 World 2 United States 3 Alabama 4 Alaska 5 California 6 Colorado 7 Connecticut 8 Georgia. Georgia revokes biomass facility's unlawful air permit after conservation groups' legal challenge. Southern Environmental Law Center. 9 Idaho 10 Indiana 11 Massachusetts 12 Michigan 13 Minnesota 14 New York 15 Oregon Wisconsin. 16 Wisconsin's GOP Senate candidate Hovde defends not knowing much about the farm bill in a dairy state. Associated Press. **RAWSEP View**. Using farmland for food production is supported by the Farm Bill. Using rural land for producing wood for burning pollutes rural air as well as urban air. 17 Brazil 18 Australia 19 Canada 20 United Kingdom 21 Germany 22 Bangladesh 23 India 24 Japan 25 Malaysia 26 Thailand 27 PM2.5 and human health. Main Content. 1 World and Azerbaijan Baku United Nations Climate Talks scheduled for November 11 to 22, 2024. The New York Times. The U.N.'s Verdict on Climate Progress Over the Past Year: There Was None. An annual assessment by the world body tracks the gulf between what countries have vowed to do and what they've actually achieved. Though renewable energy sources are growing rapidly around the world demand for electricity has been rising even faster. **RAWSEP View**. This article does not mention wood burning as a source of CO2 and PM2.5 which adversely affects human health as well as contributes to climate change. Non counting of wood burning emissions is allowed because through the scientifically debunked excuse of Carbon Neutrality of Wood Burning all countries around the world are allowed to not count wood burning emissions or their reduction toward meeting each countries Climate Goals. Whenever fossil fuel emissions and their reduction are mentioned in this article as part of each country's climate goals. **RAWSEP** believes that counting wood burning emissions and their reduction should be added to each country's climate goals instead of ignored. But wood burning emissions are ignored in this article. **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501c3 nonprofit organization.** Oct. 24 2024. One year after world leaders made a landmark promise to move away from fossil fuels countries have essentially made no progress in cutting emissions and tackling global warming according to a United Nations report issued on Thursday. Global greenhouse gas emissions soared to a record 57 gigatons last year and are not on track to decline much if at all this decade the report found. Collectively nations have been so slow to curtail their use of oil gas and coal that it now looks unlikely that countries will be able to limit global warming to the levels they agreed to under the 2015 Paris climate agreement. The report comes a month before diplomats from around the world are scheduled to meet in Baku Azerbaijan for annual United Nations climate talks where countries will discuss how they might step up efforts to address global warming. Even though renewable energy sources like wind and solar are growing rapidly around the world demand for electricity has been rising even faster which means countries are still burning more fossil fuels each year. At last year's climate talks in Dubai United Arab Emirates representatives from nearly every nation approved a pact that called for transitioning away from fossil fuels and accelerating climate action this decade. The new U.N. report finds that at least 151 countries have formally pledged under the Paris climate agreement to curb their greenhouse gas emissions by 2030. If every country followed through on its stated plans then global emissions could be 3 percent to 11 percent lower at the end of the decade. But that would still put the Earth on track to heat up an average of roughly 2.6 to 2.8 degrees Celsius 4.7 to 5 degrees Fahrenheit over preindustrial levels by the year 2100. The planet has already warmed roughly 1.3 degrees Celsius 2.3 degrees Fahrenheit. every fraction of a degree of warming brings greater risks from



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heat waves wildfires drought and storms. Under the Paris Agreement world leaders vowed to hold global warming below 2 degrees Celsius to limit the risks. To stay below 2 degrees Celsius global emissions would need to fall 28 percent between now and 2030. To stay at 1.5 degrees Celsius global emissions would need to fall 43 percent. In 2024 only Madagascar has submitted a new stronger pledge to curb emissions by 2030. According to the U.N. report cutting global emissions to zero could require an extra \$900 billion to \$1.2 trillion per year in global investment. 2A United States. Daikin unveils high temperature commercial heat pump. elemental. Daikin's new commercial heat pump claims high temperature range and inverter driven scroll compressors running on R454C. 2B United States. DOE Announces Commercial Building Heat Pump Challenge. Contracting Business. Cold climate heat pumps CCHPs developed as part of the challenge will enter commercial production as soon as this fall manufacturers say. Building. 2C United States. Equitable Decarbonization Through Envelope Improvements and Heat Pump Installation in. Department of Energy. A crouching person inspects an air source heat pump mounted to the side. Center for Energy and Environment. 2D United States. This government program wants to give you up to \$14k for home energy upgrades. MSN. The rebate program can help you keep The Inflation Reduction Act put solar power and a heat pump water heater in reach of our household. 2E United States. Homeowners are getting \$10,000 in incentives for this next gen HVAC tech MSN. AC units also don't provide heat whereas heat pumps can provide cooling and heat. A DIY Heat and AC System with Heat Pump. 2F United States. The hottest home renovation could shave hundreds off your energy bills. Yahoo. The scoop. A heat pump water heater doesn't directly warm the water inside. Instead it pumps heat from outdoors to warm the water. 2G United States. Introducing the HVAC Electrify and Decarbonize e-newsletter ACHR News. Heat Pump Adoption Uptick in Maine: An HVAC Minute Video Update August 6. Electrify and. 2H United States. New Cold Climate Heat Pumps Are About to Hit the Market. CNET. The name heat pump is kind of a misnomer considering it only covers half of the device's function. Heat pumps provide both heating and cooling. 2i United States National Institutes of Health. Physicochemical and toxicological properties of wood smoke particulate matter as a function. nih.gov Wood burning is a major contributor to global pollution. Effect of wood species: PM emission during the flaming combustion of hardwoods was dominated by nanoparticles with peak nanoparticle number. Effect of wood species: PM emission during the flaming combustion of hardwoods was dominated by nanoparticles with peak nanoparticle number. 2J United States. Prepare for Colder Weather and Enhance Your Home's Energy Efficiency. DELCO.Today Learn about available PECO Rebates and Discounts. Maximize Efficiency with Heat Pump Technology. Recent advancements in HVAC technology have made. 2K United States. Seriously good cold climate heat pumps are headed to the US market. Electrek. The manufacturers that took part in the DOE's Residential Cold Climate Heat Pump Challenge are taking their new improved products to market. 2L United States. Something old new borrowed blue. Talking biochar in our national forests. **RAWSEP** View. Don't burn wood to begin with avoid air pollution. USDA Forest Service. Wood waste left from timber or fuel reduction projects known as slash is typically piled and burned under favorable conditions. 2M However biochar charcoal's twin is new to a lot of folks. Biochar is a carbon rich soil amendment created by burning wood waste with special. 2N United States. Successful conclusion for the Residential Cold Climate Heat Pump Challenge. HPAC Magazine. All cold climate heat pumps CCHPs developed for the challenge will be entering commercial production as soon as this fall. Prototype testing was. 2O United States. These ultra efficient water heaters can save you hundreds. The Cool Down. Households in qualifying locations and with certain



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income levels may also qualify for rebates on heat pump water heaters and other efficient. 2P United States. This small startup's new tech is slashing home heat hot water and AC costs. The Cool Down. Harvest Thermal uses an efficient heat pump and a smart thermal battery to heat cool and provide hot water in homes all using clean energy. 2Q United States Western States. The New York Times. Wildfires in the West Aren't Just Getting Bigger. They're Faster Too. In recent decades fast growing blazes were responsible for an outsize share of fire related devastation scientists found using satellite data. Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501c3 nonprofit organization. Oct. 24 2024. Wildfires aren't just tearing through larger swaths of the American West. They're spreading more quickly too. A team of researchers looked at NASA satellite data on 60000 wildfires in the contiguous United States between 2001 and 2020. After classifying each blaze by the most it grew in a single day the scientists found that these growth rates had increased over time in much of the West and California in particular. Their study published Thursday in the journal Science also found that the fastest growing infernos were responsible for a huge share of the devastation. The speediest 2.7 percent of blazes accounted for almost 80 percent of structures destroyed two thirds of fatalities and more than 60 percent of the money spent on fire suppression the researchers found. The fastest growing California fire that Dr. Balch and her colleagues identified was the August Complex blaze of 2020. That cluster grew by 115,000 acres in a day at its fastest and remains the state's largest wildfire on record. 3 Alabama Rocket City. Advocates seek aid for unhoused people in Alabama's 'Rocket City'. Southern Poverty Law Center. The wood smoke tainted by the smell of burnt plastic created a haze over the dew and burned both eyes and nostrils. For the fourth time in as. 4 Alaska. Method rapidly determines surface air quality during Alaska wildfires. Phys.org Regional surface PM2.5 levels are often extrapolated in part from aerosol optical depths but the relationship can be complicated during wildfires. 5A California Alameda County Piedmont. Home electrification survey: Share your experiences thoughts on solar panels heat pumps. Piedmont Exedra. heat pumps heat pump water heaters and EV charging. Whether you've completed or attempted electrification projects on your property. 5B California San Francisco. Notice of Public Comment: Air Pollution Exposure Zone 5 year Update. San Francisco. City and County of San Francisco. The map represents parcels in San Francisco that have PM2.5 levels modeled at 9ug/m3 or greater contributing from roadway traffic permitted. 5C California San Francisco. Spare the Air Alert issued for Tuesday as Bay Area braces for unhealthy conditions. MSN. The Bay Area Air Quality Management District said Monday that smoke from increased wood burning along with light winds and low overnight temperatures. 6 Colorado. Slash pile burning planned this fall winter on San Juan National Forest The Pagosa Springs Sun. wood smoke and health. For additional information on the San Juan National Forest prescribed fire program visit Inci Web <https://inciweb.wildfire>. 7 Connecticut Berlin Hawthorne Fire. Nearby residents of Hawthorne Fire keeping close eye on situation. MSN. Up until today residents said they were staying inside and could still smell smoke. How to Inspect a Wood Burning Fireplace Yourself. 8 Georgia. Georgia revokes biomass facility's unlawful air permit after conservation groups' legal challenge. Southern Environmental Law Center. wood pellet facility. Biomass energy is the process of cutting down trees turning them into wood pellets and then burning them for power. Geogia. After pushback a Georgia wood pellet mill owner shelves expansion. Atlanta Journal Constitution. Georgia wood pellet mill abandons expansion environmentalists drop challenge In addition to the pollution caused by burning pellets they say the. ATLANTA—The Georgia Environmental Protection Division has revoked the permit amendment of



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a biomass wood pellet facility after the Southern Environmental Law Center (SELC), on behalf of Georgia Interfaith Power and Light (GIPL) and Sierra Club, mounted a legal challenge arguing the amendment violated the Clean Air Act. **RAWSEP Key Excerpt.** Biomass energy is the process of cutting down trees, turning them into wood pellets, and then burning them for power. The biomass industry claims this process is clean energy, but in reality, burning forests for electricity releases more climate-warming pollution than burning coal, all while degrading Southern forests and harming nearby communities. **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501c3 nonprofit organization.** ATLANTA. The Georgia Environmental Protection Division has revoked the permit amendment of a biomass wood pellet facility after the Southern Environmental Law Center (SELC), on behalf of Georgia Interfaith Power and Light (GIPL) and Sierra Club, mounted a legal challenge arguing the amendment violated the Clean Air Act. Telfair Forest Products is a wood pellet manufacturing plant in Lumber City. On July 3, the Georgia Environmental Protection Division (EPD) approved a modification to Telfair Forest Products' Air Quality Permit to double its emissions of certain health and climate-harming pollutants without installing legally required pollution controls or conducting air impact analyses. In a stunning move, EPD revoked the permit amendment. Telfair Forest Products requested the revocation and does not plan to challenge it, according to a letter from EPD. Telfair Forest Products' original permit to pollute air remains in effect. This afternoon SELC told the court it intends to withdraw its legal challenge in the Georgia Office of Administrative Hearings after the revocation is legally final. Telfair Forest Products was poised to be the poster child for how air quality regulations have failed communities surrounding biomass wood pellet plants, said a senior attorney in SELC's Georgia office. we have a long way to go until Telfair Forest Products and its competitors decide South Georgians' health is more important than industry. We will continue to keep the pressure on until all Georgians can breathe clean air! It is troubling that it took the threat of litigation for the EPD to do the right thing," said the Director of the Sierra Club Georgia Chapter. Still, it is gratifying to know that the residents of Telfair County will not face such an unhealthy level of air pollution. The Sierra Club will continue to oppose harmful biomass projects that threaten our communities here in Georgia. Biomass energy has an outsized impact on the South, which is home to dozens of wood pellet plants. These facilities turn trees into wood pellets which are then shipped overseas to countries in Europe and Asia where they are burned for power. Even worse, wood pellet facilities frequently violate their permits, making them even more dangerous to nearby residents. SELC's legal challenge was before the Georgia Office of Administrative Hearings, the process required by state law before challenging a state-issued permit in Georgia's court system. 9 Idaho Boise. Inflation Reduction Act Tools and Resources. City of Boise. ENERGY STAR Rebate Finder — Locates rebates and special offers available to Idaho residents on energy efficient products based on zip code. Heat Pump. 10 Indiana. Warrick County issues immediate burn ban. MSN. Ordinance No. 2008 10 Open Burning Ordinance hereby declares an Open Fire Emergency. Warrick County officials. 11 Massachusetts Falmouth. Making The Jump To A Heat Pump. Falmouth Columns CapeNews.net Last fall I did not. I managed to limp through with my wood stove until February when I finally got my whole home cold climate heat pump system. 12 Michigan. Armstrong International's New Industrial Heat Pump Manufacturing Facility to Help Light. Clean Technica. Essentially heat pumps extract heat from a source such as heat. Heat pump manufacturing wing at its campus in Three Rivers Michigan. 13 Minnesota New Utm. Burning restrictions remain in effect. The Journal. Charcoal grills wood smokers and propane or



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natural gas devices are not considered open burning. Brown County does not require residents to. 14A New York Erie County Dunkirk. Department responds to city fire. Observer Today. There was no damage apparent on the exterior of the house but the smell of burning wood hung in the air. 14B New York Finger Lakes. NYSEG and RG&E promote energy savings during Energy Awareness Month. Fingerlakes1.com Heat Rebate Program which offers incentives for heat pump installations. Heat pumps are among the cleanest and most efficient heating options. 15A Oregon Multnomah County. Multnomah County and partners use federal Environmental Protection Agency grant to. Multnomah County. 15B Oregon Washington County Banks. Burn pile escapes ignites wood deck west of Banks. Banks Post. A burn pile escaped and ignited a log deck west of Banks prompting a response from three agencies Thursday. The concern was the fire would. 16 Wisconsin. Wisconsin's GOP Senate candidate Hovde defends not knowing much about the farm bill in a dairy state. Associated Press. **RAWSEP** View. Using farmland for food production is supported by the Farm Bill. Using rural land for producing wood for burning pollutes rural air as well as urban air. **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501c3 nonprofit organization.** October 25 2024. MADISON Wis. AP. Wisconsin Republican Senate candidate Eric Hovde has repeatedly defended his self-professed lack of knowledge about the U.S. farm bill in the campaign's closing days after first saying in a debate that he is not an expert on the legislation that is vital to farmers in the state known as America's Dairyland. Hovde's comments over the past week came after the incumbent Sen. Tammy Baldwin secured the endorsement of the usually Republican aligned Wisconsin Farm Bureau making her the first Democratic candidate for a statewide office to receive it in more than 20 years. Hovde was asked during the race's only debate with Baldwin on Oct. 18 about the farm bill and he responded I'm not an expert on the farm bill because I'm not in the U.S. Senate. Baldwin has used those comments in digital and radio ads attacking Hovde touting her Farm Bureau endorsement and saying Hovde doesn't give a damn about farmers. Baldwin in her response during the debate said the bill needs to provide certainty to Wisconsin farmers. They need the consistency that a farm bill has she said. But one of the problems with the farm bill right now is that the House controlled by Republicans has written a bill that's basically eviscerated nutrition programs. Farmers support nutrition programs because it means purchasing their goods. Congress passed the last farm bill in 2018. It was set to expire near the end of 2023 but Congress extended it for another year after Republicans and Democrats could not agree on reauthorization. 17 Brazil. Wildfire sourced fine particulate matter and preterm birth risks in Brazil ScienceDirect.com Wildfire specific particulate matter with diameters  $\leq 2.5 \mu\text{m}$  PM2.5 is the key component of wildfire smoke with potentially higher toxicity than. 18 Australia Victoria Sale Johns Street. Backyard Burn Is Bad For Business. EPA. Mirage News. Several local people were quickly on the phone to EPA and the CFA reporting smoke from a business in Johns St burning plastic rubbish wood and. 19A Canada Alberta Medicine Hat. Firefighters respond after residents light outdoor fire pit inside home. Medicine Hat News. No damage or injuries were reported however Smith says it's important to use fireplaces and other wood burning appliances to the intended design they. 19B Canada British Columbia Kelowna. Are heat pumps a 'significant' change? Business News kelownadailycourier.ca Dear Tony: Our community is a mix of townhouses and a high rise. Over the past five years all of the townhouse units have installed heat pumps to. 19C Canada Ontario Kenora. she will be pushing the government to make their new heat pump rebate available across the region. Kenora is the only Northwestern Ontario community that has access to the program.NWONewsWatch.com Northwest Ontario News. 20A United Kingdom Coventry. Are you curious



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about the impact your log burner has on your air quality at home? Coventry City Council. Do you have a wood burning stove or an open fireplace? 20B United Kingdom. Households in the UK face £300 fines this November for using chimneys. Daily Express. wood burner installed in the chimney. Regrettably if your chimney begins to emit smoke you can be reported to the local council and fined in. 20C United Kingdom. Newly launched website provides helpful guidance on heat pumps. elemental. Together with The MCS Foundation innovation charity Nesta has relaunched a website designed to demystify the heat pump process for UK households. United Kingdom Scotland. SNP ban on wood burning stoves in new homes 'shows contempt for rural Scotland' MSN. An SNP ban on wood burning stoves in new homes has been condemned as an attack on rural Scotland. Under regulations introduced this month aimed at. 21 Germany. Johnson Controls delivers Germany's first seawater heat pump. Johnson Controls. Heat pumps are a crucial technology in the energy transition and provide an efficient and sustainable alternative to gas and oil heating. 22 Bangladesh. Removal of Airborne Particulate Matter by Evergreen Tree Species in Dhaka Bangladesh. ScienceDirect.com The chemical composition of the deposited PM2.5 was analyzed quantitatively by determining the concentration of twenty five trace elements employing. 23A India. Toxic air alert! How air pollution can exacerbate allergic reactions affect lungs skin. Health. Hindustan Times. Major pollutant including particulate matter PM contribute to allergic problems. PM2.5 particles of diameter. 23B India. Decline in stubble burning cases but air quality continues to be poor in Kurukshetra. Tribune India. particulate matter PM 2.5 at 227 on Friday particulate matter PM 2.5 at 227 on Friday. 24 Japan. Author Correction: Attributing human mortality from fire PM2.5 to climate change. Nature. particulate matter with a diameter of  $\leq 2.5 \mu\text{g m}^{-3}$  PM2.5 . This sentence has now been amended to Fire smoke includes fine particulate matter. 25 Malaysia. LG RECOGNIZED WITH 2025 AHR INNOVATION AWARD. The Malaysian Reserve. Residential Cold Climate Heat Pump Delivers Efficiency in Cold Climate Regions ALPHARETTA Ga. Oct. 24 2024 /PRNewswire/ LG Electronics. 26 Thailand. Deadly annual air pollution returns to developmentally challenged Bangkok. MSN. PM2.5 particles which cause cancer and other debilitating illnesses are recorded every year in Thailand usually between December and April. 27A PM2.5 and Asthma. Asthma Linked to Fine Particulate Matter. Mirage News. Evidence suggests that long term exposure to air pollution of fine particulate matter PM2.5 is an important risk factor for developing asthma. 27B PM2.5 and induced cardiomyocyte. Exploring the mechanism of sesamin for the treatment of PM2.5 induced cardiomyocyte. Frontiers. Exposure to fine particulate matter PM2.5 on cardiomyocytes. Keywords: Sesamin PM2.5 Heart injury. 27C PM2.5 and Lung Function. Sarcoidosis and Air Pollution: Higher Exposure Linked to Worse Lung Function. Pulmonology Advisor. Among patients with sarcoidosis increased exposure to fine particulate matter PM2.5,



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