

Episode 57AK November 20 2024. University of Wisconsin researches access to clean energy Heat Pumps.

In Episode 57AK 1 United States 2 Arizona 3 California 4 Colorado 5 Iowa 6 Massachusetts 7 Wisconsin 8 United Kingdom 9 India 10 PM2.5 and human health. Main Content. 1A United States. **RAWSEP View and hope.** The youth demographic may have a spokesperson for clean energy. This article gives RAWSEP the intriguing to RAWSEP, but perhaps boring to most, idea of holding RAWSEP meetings in public libraries over the winter. **From the article.** After Midnight host Taylor Tomlinson demands a 'second to be sad' after Donald Trump's reelection. November 7, 2024. I'm mad at CBS for hiring me so that I cannot immediately leave the country. It's a lot of misplaced anger right now. However **RAWSEP sees that hope that Tomlinson will become a spokesperson for clean air must wait** apparently. **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates, a 501c3 nonprofit organization.** **Tomlin is quoted as saying.** You don't go to the funeral and immediately scream "Volunteer at the library!" Like yes I'll volunteer at the library but let me bury democracy first. 1B United States Public Broadcasting Service PBS. Here's the deal newsletter. **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates, a 501c3 nonprofit organization** November 20, 2024. HEY LAWMAKERS. LET'S TALK. The U.S. government is set to run out of money on December 20, 2024. you have few options here. Option 1. Pass another continuing resolution to kick funding into early next year. Option 4. Do whatever Trump wants. many of you have left him voicemails. should Trump wade into this fight it would give Speaker Johnson political cover. For you other Republicans it could help set a direction. The problem here is that Trump likes to keep allies and enemies alike in a state of uncertainty about what he will do. He likes to hear you make your arguments and assess who of you has the strongest or weakest hands. And that assessment can change with a single encounter. He may want a version of funding that comes with other serious ripple effects. One thing all of you Republicans and Democrats share is that you truly don't want a government shutdown. Republicans. You see the start of the second Trump administration as a chance to focus on policies including massive tax cuts. Democrats. By December 20, 2024, this is a chance for one more funding bill that you can influence. you have just more than a month. it would be nice to not worry about a government shutdown. 2 Arizona. Maricopa County Air Quality Department Launches Annual Burn Cleaner Burn Better Campaign. Maricopa County. **RAWSEP View.** Use of the words burn better instead of don't burn gives the impression that this halfway measure is measurably helpful in improving public health, when it isn't. From the article. The BCBB campaign raises awareness about the health risks associated with breathing polluted air caused by wood smoke. Each year during the holiday. burning wood and instead opt for cleaner burning alternatives to mitigate the negative impact of wood smoke on public health and air quality. 3A California Calaveras. Recent Fires Prompt Warnings About Discarded Ashes And Chimneys. myMotherLode.com **RAWSEP View.** Only warnings about discarded ashes starting fires does not address the true problem with wood burning stoves and fireplaces, the unnecessary air pollution they impose on near neighbors of indoor residential wood burners. From the article headline. Wood fired stoves and fireplaces. On Sunday the Calaveras Consolidated Fire Department responded to a small vegetation fire in Rancho Calaveras. 3B California Lake Tahoe. Lake Tahoe prescribed fire operations continue this week weather permitting. South Tahoe Now. Smoke from prescribed burns wildfire or woodburning stoves may hang low to the ground at night and in the early morning due to a phenomenon known as. 4 Colorado Keystone Gulch. Fire crews plan controlled burn to reduce wildfire fuels in Keystone Gulch. SummitDaily.com Prescribed fire smoke can affect human health. For more information visit Colorado.gov/pacific/cdphe/woodsmokeandhealth Crime and Public. 5 Iowa Des Moines Marshalltown. Improperly installed chimney likely cause of Marshalltown structure fire WHO13.com An improperly installed chimney pipe of a wood burning stove may be to blame for a structure fire in Marshalltown overnight. Improperly installed chimney likely cause of Marshalltown structure fire AOL.com 6 Massachusetts Boston. Brush fire smoke can aggravate respiratory problems. Here's how to protect yourself. The Boston Globe. CDC officials say to avoid burning anything indoors such as wood. 7 Wisconsin Madison Heat Pumps. **RAWSEP View.** Heat Pumps powered by household electrification are a clean and now cheaper alternative



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to indoor residential wood burning because of Heat Pump Rebates or Second there is now money from the Biden Administration going into rural electrification from rural Cooperatives such as Dairyland Cooperative that use clean energy such as wind solar and geothermal that will make Heat Pumps powered by electricity a more viable option in rural areas. **But there are still inequalities or potential inequalities since Heat Pumps have not yet been distributed on a wide scale in distribution of Heat Pumps according to this research article.** It is true that some individuals probably of higher income than median in the last few years have invested in Heat Pumps because these individuals had the funds. These early adopters of Heat Pumps besides high costs also had to contend with glitches in a new technology lack of some maintenance and cold climate adaptation as **RAWSEP's editor has been told** which problems are now being resolved as Heat Pumps become an ordinary household appliance offered by many retailers and that meet the US governments Cold Climate Challenge. In Wisconsin dual use Heat Pumps are one way to deal with Wisconsin's cold winters. A dual use Heat Pump works as a Heat Pump until at some negative Fahrenheit degree is reached such as 22 below or 40 below and at that point the heating device can be switched to a bridge fuel and device such as natural gas furnace which Wisconsin individuals may already own. Bridge means that natural gas is a relatively low PM2.5 emissions bridge to the cleanest alternative for home heating the Heat Pump. Wood burning emits 450 times the PM2.5 as the fossil fuel natural gas burning furnace. Wood burning emits 2.8 times the PM2.5 and CO2 as the fossil fuel coal burning. Wood burning emits 90 percent PM2.5 particulate matter of 2.5 micrometer size the perfect size to infiltrate the human lung setting off a cascade of human health problems and early deaths. PM2.5 is not an addictive substance like nicotine so indoor residential wood burners can just stop burning wood with no addiction cessation programs needed. This research article points to communities of color and renters as potential groups in society which may potentially be treated with inequality in access to Heat Pumps. **RAWSEP** believes this potential inequality can be overcome by publicizing Heat Pump Rebates to all groups in Wisconsin when they become available with probable targeted publicization to communities of color and renters since they may not think Heat Pump Rebates could apply to them despite the offer of Heat Pump Rebates to all individuals and even landlords in Wisconsin. However **RAWSEP** believes that if communities of color fall within the low income limits that most benefit from Heat Pump Rebates based on income limits, with the maximum dollar amount of \$8,000 rebates available to those at 80 percent of median income or less, that communities of color will not experience inequality of access to Heat Pumps, if the rollout of Heat Pump Rebates is adequately publicized to communities of color along with other communities. This is an optimistic view by **RAWSEP** but it is also a realistic and practical view if the objective of this research is to find a solution to this inequality rather than only making a point that there is current inequality. However you need to name a problem to solve a problem if there is one. Right now it is early days and any wrong can be righted at inception of the Heat Pump Rebate program. Right now without rollout of Heat Pump Rebates, obtaining a Heat Pump is theoretical for all low income individuals in Wisconsin. With Heat Pump Rebates Heat Pumps will become obtainable for all income groups whether communities of color or not. **RAWSEP** view is that the Heat Pump program officially launched this fall but the actual Heat Pumps are not yet offered by Focus on Energy. **RAWSEP** believes economic inequalities will cease to exist when the Heat Pump rebates based on a sliding income scale are actually implemented. If this research paper proposes widespread publicizing of Heat Pump Rebates when they are available to the public then this research paper has value according to **RAWSEP**. **RAWSEP View.** The strategy of using Heat Pumps strategy to cut **RAWSEP importantly interjects here wood burning emissions of PM2.5 and CO2** and fossil fuel emissions is being researched at the University of Wisconsin Madison LaFollette School of Public Affairs. From the article headline in UW Madison Follette School of Public Affairs newsletter. Email November 20 2024. From the article headline. **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates, a 501c3 nonprofit organization** New research reveals heat pump inequities across US. Posted on November 11 2024. As heat pumps gain popularity in the U.S. as an important strategy for reducing fossil fuel emissions new research led by La Follette School Assistant Professor Morgan Edwards highlights current inequities in the technology's use. The newly published



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<https://docs.google.com/.../1FAIpQLSFYzbV3H2vjfe.../viewform>



Sign-on letter: Call for the adoption of an additional Protocol to the European Convention on Human Rights on the autonomous right to a clean, healthy and sustainable environment / **Joignez-vous à nous:** Appel pour le droit à un environnement propre, sain et durable en Europe / **Gemeinsam können wir es**

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Sign-on letter: Call for the adoption of an additional Protocol to the European Convention on Human Rights on the autonomous right to a clean, healthy and...

Joule article combines property data sociodemographic indicators and estimates of the effects of heat pump adoption on energy bills to find that communities of color and those with more renters are less likely to use heat pumps. The research also finds that communities of color are less likely to use heat pumps even in regions where they would help save money on energy bills. The research team also included UW Madison researchers and their analysis found that a 10% increase in the Black population in a census tract is associated with a 13% decrease in the odds of having a heat pump. Higher percentages of Asian multiracial Pacific Islander and other nonwhite racial/ethnic residents in a community also lead to lower heat pump use. Additionally a 10% increase in renter occupied units in a tract is associated with a 4% decrease in the odds of heat pump use. Unlike RAWSEP importantly interjects here unlike the indoor residential wood burning that contributes 450 times more PM2.5 than the fossil fuel natural gas burning and unlike traditional gas furnaces that contribute significantly to greenhouse gas emissions heat pumps use electricity to heat or cool homes. They can also be attractive options for electrifying space heating because they are much more efficient and cost effective than electric resistance heaters. The Inflation Reduction Act IRA of 2022 expanded incentives for heat pumps and other clean energy technologies yet the extent to which the policy will impact underserved communities remains uncertain. RAWSEP importantly interjects here that the policy impact is uncertain because although the Heat Pump Rebates program has been formally launched in Wisconsin Heat Pump Rebates are not yet available and not yet publicized as available on the Focus on Energy website. As of 11/20/2024 this is what is offered at <https://focusenergy.com/residential/heatingandcooling> Receive up to \$700 off new efficient heating and cooling equipment! Focus on Energy offers rebates and instant discounts on a variety of energy efficient heating and cooling equipment including furnaces boilers smart thermostats and water heaters. Ask your Trade Ally contractor if they work with a participating distributor and if the equipment you are choosing qualifies for a rebate or instant discount. From the article. Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates, a 501c3 nonprofit organization Climate Action Lab at UW Madison is where its interdisciplinary team of researchers focus on equitable energy responses to the climate crisis. This recent study is part of a broader program on equitable electrification that is supported by a Kohl Competition Award and three grants from the Department of Energy. One recently awarded grant led by a researcher at UW Madison's College of Engineering aims to develop a market ready heat pump that can replace inefficient natural gas boilers in older buildings. Industry partners for this project include Trane Slipstream and the National Renewable Energy Laboratory. BA United Kingdom Canterbury. Stay guiltfree while you kill the chill says council. Canterbury Newsroom. RAWSEP View. The council is apparently wrong when RAWSEP refers to the headline of this article. If the guilt referred to in this article is guilt about creating air pollution, you are not guilt free if you burn any wood, whether wet or dry, whether hard or soft wood. Burning wood is unnecessary when there are clean, cheaper alternatives for home heating in 2024, most prominently in the news, Heat Pumps that work down to 40 below, also serve as air conditioners and lower monthly electricity bills immediately. The wood burning industry has used the terms Burnwise Burn better et cetera for years in order to keep air polluters feeling guilt free, apparently. Creating air pollution should justifiably be a guilt inducing activity. However, RAWSEP does not exist to make people feel bad, RAWSEP exists to make people, human beings with the same lungs as other human beings, especially the near neighbors of indoor residential wood burners, feel like they live in a healthy environment, free of unnecessary air pollution, because indoor residential wood burning has been stopped. RAWSEP feels guilty if it does not make the gargantuan effort in every situation, to inform human beings that they need to stop burning wood for their own health, the health of their neighbors and the health of the planet. Wood burning emissions also hasten climate change which comes with wildfire wood burning in a feedback loop of burn wood, contribute to climate change, contribute to wildfire wood burning, et cetera. Referring to the second sentence of the article headline, the statistics that show that wood burning emits 450 times the PM2.5 as the fossil fuel natural gas burning and wood burning emits 2.8 times the PM2.5 and CO2 as the fossil fuel coal burning come from testing the EcoDesign wood stove referred to in this following article. It is true that EcoDesign wood stove use is still legal in the United Kingdom



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Did You Know?

Colder and drier air during the winter season **traps more pollutants**. These meteorological conditions act as a lid, restricting air movement and leading to **higher concentrations of particulate matter (PM2.5)**.

PM2.5

28X

smaller than
human hair

Because of their incredibly small size, these particles can enter the lungs and may cause **health issues**.

You can **reduce** PM2.5 levels by:

- Not burning wood** as a source for heat
- Avoid leaving your **car idling**

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but that is in spite of the pollution emitted by this particular cleanest burning wood stove in the United Kingdom, not because using the EcoDesign wood stove is pollution emissions free. **From the article, Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates, a 501c3 nonprofit organization** Canterbury Newsroom Canterbury City Council. Wet wood contains moisture which creates smoke and harmful particulates when burned. Dry wood contains 20% or less moisture using smokeless fuels. not burning waste wood like old furniture or household rubbish because they can produce toxic fumes using an Ecodesign Ready stove which can reduce. 8B United Kingdom Oxford. Chimney sweep keeps homes safe fireplaces burning bright The Oxford Eagle **RAWSEP View**. This article apparently promotes gas logs instead of wood burning in fireplaces, which seems like a step in the right direction. However, why continue burning in your home, says one whose instincts of self-preservation view unneeded fire images as the potential health hazard that it is, as wild animals do naturally? Think of Bambi's mother fleeing a wood burning wildfire and you get the picture. Or are you a person who views a wood burning fire like a fire arm in your home, existing to deter intruders? How odd and hopefully unpopular to view an unnecessary fire that way. You can now heat with an unobtrusive Heat Pump that has no emissions, unlike wood burning and also gas burning, although wood burning emits 450 times the PM2.5 as a natural gas furnace. Having to employ a chimney sweep only points out the presence of unnecessary air pollution adhering to a wood burning fireplace chimney, that can be eliminated by eliminating indoor residential wood burning. **From the article, Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates, a 501c3 nonprofit organization** wood fires. Woodburning fireplaces are only about 20% efficient while gas logs. 8C United Kingdom. Warning as log burner mistake could see £300 fine issued Lancs Live. **RAWSEP View**. The wood burning mistake is burning wood in the first place, not necessarily the halfway unhelpful measure of not burning wet wood. From the article. This comes after the sale of house coal and wet wood was banned in England in 2022 as part of a drive to reduce emissions and promote greener. The regulations state that owners are to face penalties for using woodburning stoves which don't meet the UK's standard for emissions. 9 India Delhi. Delhi breathes poison. Worst air quality since 2019 SC says don't lift curbs until orders. The Indian Express. At India Gate the PM2.5 concentration peaked at 969 micrograms per cubic meter at noon. According to the Early Warning System for Air Quality in. India Delhi. Delhi NCR's choking air pollution. 10 ways of making it better The Indian Express. A successful execution of these 10 measures is expected to bring down PM2.5 levels to 72 µg/m³ and PM 10 levels to 120 µg/m³. India Delhi. Explained. Why Delhi's AQI Was 494 Today But International Monitor Said 1600. NDTV. In India the scale of PM2.5 is 60 while in some countries that have adopted the World Health Organization WHO standard is five or ten. India Noida. Noida's Air Quality Plummet to 'Severe' Levels Amidst Gloomy Monday. Times of India. In Sector 62 which houses Electronic City and is home to many offices and industries off the busy Delhi Meerut Expressway PM2.5 levels reached 500. India Shia. Emergency Declared as New Delhi Faces Severe Smog Crisis Shia Waves. The Air Quality Index AQI soared to 484 categorized as severe plus with PM2.5 concentrations 138.4 times above the World Health Organization's. 10A PM2.5 and ambient heat. Association with Short Term Exposures to Ambient Heat and Particulate Air Pollution. RSNA Journals. particulate matter and ground level ozone. Fine particulate matter with 2.5µm or smaller aerodynamic diameter PM2.5 contains microscopic solids. 10B PM2.5 and prediction. High resolution Spatiotemporal Prediction of PM2.5 Concentration based on Mobile. ScienceDirect.com Establishing CNN Transformer for high resolution PM2.5 concentration prediction. Discussing the influence of the number of monitoring vehicles on. 10C PM2.5 and pregnancy risk. Fine Particulate Matter Exposure During Pregnancy Linked to Increased Risk for. MD Edge. **TOPLINE**. Exposure to fine particulate matter PM2.5 during pregnancy is associated with an increased risk for spontaneous preterm birth with peak. 10D PM2.5 and psoriasis. Air Pollution Exposure and Genetic Risk Increase Psoriasis Incidence. Dermatology Advisor. Included air pollutants 2.5 micrometer PM2.5, 10E PM2.5 and rural health. Q&A. Report highlights importance of satellite derived air quality data for rural health. Healio. According to an American Lung Association press release 2700 U.S. counties had incomplete or no fine particulate matter PM2.5 monitoring data in.



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One of the penalties of an ecological education is that one lives alone in a world of wounds. Much of the damage inflicted on land is quite invisible to laymen. An ecologist must either harden his shell and make believe that the consequences of science are none of his business, or he must be the doctor who sees the marks of death in a community that believes itself well and does not want to be told otherwise.

Aldo Leopold