

Episode 56YS October 7, 2024. A firefighter worried about smoke hazards. So he designed a solution.

In Episode 56YS 1 United States 2 California wildfires in several counties. 3 Florida 4 Idaho Lewiston.

**RAWSEP View.** There seem to be two sides allowed onto the stage in this debate reaching a newspaper in Lewiston Idaho. One side called activists are urging the court to cut wood burning smoke. They argue that subsidizing the firewood program makes wood burning seem cheaper than it actually is. 5 Massachusetts 6 Texas 7 Virginia 8 8A Canada British Columbia Saint Albert. B.C. wildland firefighter worried about smoke hazards. So he designed a solution. **RAWSEP View.** The solution is a portable easily removable respirator that protects the mouth. 9A United Kingdom. **RAWSEP View.** The obligatory newspaper headline description of wood burning as cozy or genuflection to what may seem to be a pitiable addictive compulsion to burn wood may not be obligatory to retain newspaper readership once the majority of people in the United Kingdom are aware that wood burning is hazardous to their health and to the health of their near neighbors and in fact hastens climate change. 9i United Kingdom Scotland. Scotland's heat pump hotspots revealed including cheapest areas for installations. 10 Sweden 11 Estonia 12 Finland 13 Germany 14 Albania 15 India 16 South Korea 17 PM2.5 and human health. Main Content. 1A United States. The government wants to give you \$10,000 for this moneysaving HVAC tech here's how to get it. MSN. All households can get up to \$2,000 in tax credits for putting in a heat pump. The further \$8,000 in rebates is for eligible low income homeowners. Yahoo. The secret sauce to the tech is that heat pumps transfer heat instead. The government wants to make heat pumps a no brainer for most households. Don't be fooled by the name this game changing HVAC tech is capable of. 1B United States. Heat Pump clothes dryer. This free tool can help you secure \$840 for an ultraefficient new clothes dryer. The Cool Down. These heat pump clothes dryers are also even easier to get with the help of the Inflation Reduction Act which gives people rebates that can make the. A heat pump clothes dryer works differently than a traditional one because it simply moves heat around rather than creating it. 1C United States. Vilter VQ95 single stage NH3 heat pump Cooling Post. USA Copeland's new Vilter VQ95 single stage ammonia heat pump is designed for district heating and industrial process heating applications. 1D United States. Copeland debuts industrial heat pump. PV Magazine. The U.S. heating specialist said its Vilter VQ95 heat pump is an ideal solution for district heating and industrial processes. 2A California Humboldt County. Breaking: Wood Fire reported in Humboldt County on October 6, 2024. Merced Sun Star. 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. Morning Update on the Wood Fire in Southern Humboldt. Redheaded Blackbelt. The fire at one point reported to be 50 acres in size was burning in heavy timber northeast of Redway off of Wood Ranch Road. The flames could. 2B California Los Angeles. Breaking: New wildfire reported in Los Angeles County on October 7, 2024. Sacramento Bee. Breaking: New wildfire reported in Los Angeles County on October 6, 2024. Sacramento Bee. The wildfire has been burning on private land. At this time the Update: Wood Fire burns 50 acres in Humboldt County. Sacramento Bee. Wood Fire burns 25 acres in Humboldt County since October 6, 2024. 2C California Riverside County. Breaking: Orchard Fire reported in Riverside County on October 6 Sacramento Bee. Orchard Fire has been burning on private land. Currently there is no Update: Wood Fire burns 25 acres in Humboldt County since October 6. Merced Sun Star. The wildfire has been burning on private land. At this time the Update: Wood Fire burns 50 acres in Humboldt County. 2D California Tulare County. Why you may see smoke near Highway 99 in Visalia. MSN. TULARE COUNTY Calif. October 6, 2024. KSEE KGPE October 6 If you drive along Highway 99 in Visalia the Tulare County Fire Department says you may see smoke for the. 3 Florida.

Lakeland Electric Ends Rebates for Some Appliances Lowers Rates for Others Lkld Now. It's also lowering the rates for four others. refrigerators clothes washers water heaters and heat pumps. We feel confident we're going to be able. 4 Idaho Lewiston. [RAWSEP View](#). There seem to be two sides allowed onto the stage in this debate reaching a newspaper in Lewiston Idaho. One side called activists are urging the court to cut wood burning smoke. They argue that subsidizing the firewood program makes wood burning seem cheaper than it actually is. The opposite side thinks that merely properly operating a wood stove can control the pollution from wood burning. From the article headlines in the Lewiston Tribune. CHEAP HEAT OR CLEAN AIR? WOODSTOVE BATTLE RAGES AT YAKIMA The Lewiston Tribune. 'But when their wood smoke emissions keep other people from breathing "Wood burning is viable economical and affordable and a cleaner. FREE GUIDE TO WOOD BURNING AVAILABLE The Lewiston Tribune. wood burning. The guide encourages proper operation of wood stoves to minimize air pollution in the valley describes heating values of eight. Idaho Lewiston. MORE STAGNANT AIR BRINGS BACK BURN BAN The Lewiston Tribune. The advisory bans open burning in the two counties. Homeowners with woodstoves are also asked to voluntarily cut back on burning firewood if possible. Idaho Lewiston. YAKIMA ACTIVISTS USE COURTS TO CUT SMOKE. The Lewiston Tribune. Current permit prices may be subsidizing the firewood program to make burning wood seem cheaper than it actually is Stahl said. Changing the firewood. [RAWSEP View](#). What are the courts asked to consider by the activists against wood smoke pollution and arguing for cutting wood smoke pollution? YAKIMA ACTIVISTS USE COURTS TO CUT SMOKE. Clean air activists in Washington's Yakima Valley this summer took aim at the root of the woodsmoke problem. They sued the U.S. Forest Service to stop firewood cutting on the Wenatchee National Forest's Naches Ranger District. And they won. RAWSEP was unable to read more than the synopsis of the article above. 5A Massachusetts. Berkshire Family YMCA Recognized By Mass Save. iBerkshires.com The Berkshires are highlands located in western Massachusetts and northwestern Connecticut in the United States. Fully replaced their steam boiler load with an extensive VRF heat pump system. Completed several other largescale projects as well as other. 5B Massachusetts. A Massachusetts town uses batteries to help its grid and its schools. Canary Media. While heat pumps are far more energy efficient than gas furnaces and boilers they're still more expensive upfront and schools have limited capital. 6 Texas Austin. Nearly 3 in 5 Americans know solar panels boost property values see what that means for you. The Cool Down. While the Inflation Reduction Act offers you a 30% tax rebate getting that can be tricky too. The heat pump is an elegant replacement for the. [Solar panels](#) can also save you money on your electric bill. According to Forbes over the lifetime of the solar panels you can save between \$25,500 and \$33,000. Solar panels community solar and battery storage can have even more widespread benefits. A study by the University of Texas at Austin shows that these things can decrease demand on the electric grid and result in savings for entire neighborhoods. 7 Virginia Loudoun County. Residential Heating Showcase 2024. ACHR News. Air quest H5H0V 20 SEER2 heat pump. Air quest. Featured article. Ecoer founded in 2016 offers advanced energy efficient HVAC systems with smart technology. Ecoer heat pumps are good for the planet the contractor and the homeowner. Smart Heat Pumps: A Look at the Future of Home Heating. October 1 2024. a warm and comfortable home is a priority for HVAC contractors. an air to water monobloc heat pump offers a blend of efficiency sustainability and cutting edge technology. Performance and Comfort in Cold Weather. The technology of an air to water monobloc heat pump stands out for its ability to maintain warmth even in challenging weather conditions. Capable of heating water to 140°F this heat pump technology continues to perform

well even as outdoor temperatures drop as low as 13°F. In extreme cold an auxiliary heating system ensures that the home remains cozy. With a noise level of just 57 dB October 6AOctober 6 it operates quietly thanks to features like a DC fan motor and an insulated compressor. Air to water heat pumps that use R32 refrigerant have a lower environmental impact compared to traditional options. heat pump installations are expected to grow substantially due to the Inflation Reduction Act tax credits and rebates for new installations of heat pumps. Advanced Technology for Efficiency. Heat pumps that feature advanced DC inverter technology greatly improve energy efficiency. With a Coefficient of Performance October 6COPOctober 6 of up to 5.01 heat pumps using this technology are designed to deliver high performance with minimal energy consumption. A monobloc design simplifies installation with only water pipes needed to connect indoor and outdoor units reducing the risk of refrigerant leaks inside the home. For ease of use systems like these can include multicolor touch panels and other features that allow homeowners to control temperatures and other settings. Intuitive design and clear icons make managing these heating systems straightforward. 8A Canada British Columbia Saint Albert. B.C. wildland firefighter worried about smoke hazards. So he designed a solution. **RAWSEP View.** The solution is a portable easily removable respirator that protects the mouth. Key excerpts. Wildland firefighters have historically used bandanas or cloth masks as respiratory protection on the fire line, with these offering “little to no protection” against small particulates in wildfire smoke. The key was to come up with a respirator that could be easily deployed for short periods and then quickly removed many times a day. The device is only worn in the mouth and does not cover the nose, making it small enough to clip on a shirt pocket for easy access. **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates, a 501c3 nonprofit organization.** British Columbia wildland firefighter Angus Duguid loves his job, but he doesn't love waking up with headaches or a clogged nose from inhaling smoke. So he turned his skills as a design student at Emily Carr University to fixing the problem for himself and, he hopes, fellow firefighters. Saint Albert Gazette. British Columbia wildland firefighter Angus Duguid loves his job, but he doesn't love waking up with headaches or a clogged nose from inhaling smoke. So he turned his skills as a design student at Emily Carr University to fixing the problem for himself and, he hopes, fellow firefighters. I was thinking about why we don't have sort of designated masks. The result is Respire, a sleek-looking respirator that looks something like a scuba diving mouthpiece and is much smaller than current commercially available respirators. The firefighter of five years hopes to eventually get it on the market, filling what he says is a gap. Unlike structural and urban firefighters who are all equipped with self-contained breathing apparatuses, Duguid said wildland firefighters have traditionally lacked suitable respirators. The BC Wildfire Service said online last month that respiratory protection certified by the National Institute for Occupational Safety and Health was made available to all operational staff this wildfire season, on a “non-mandatory, opt-in” basis. But it said wildland firefighters have historically used bandanas or cloth masks as respiratory protection on the fire line, with these offering “little to no protection” against small particulates in wildfire smoke. The agency said it couldn't provide specific responses, citing restrictions on government agencies during the provincial election campaign. Last year's wildfire season was “particularly bad” said Duguid and his crew spent lots of time in smoke that he said was sometimes an “unavoidable” part of the job. some working days last 16 hours, with firefighters hiking up hills and carrying 100 pounds of gear and breathing hard, and other times breathing much easier. Duguid is still fine-tuning the idea. He said he worried about the long-term health effects of exposure to smoke, calling it “death by 1,000 paper cuts.”

Calgary-based emergency physician Dr. Joe Vipond said wildfire smoke contains gases and small particles of pollution known as PM 2.5, which can burn eyes and irritate respiratory tracts, making people cough or feel short of breath. Vipond, a past president of the Canadian Association of Physicians for the Environment, said the PM 2.5 could affect the cardiovascular system, causing heart attacks, strokes and even killing people. “The other thing we know about PM 2.5 is that if you are exposed to it over long periods of time, not only during acute events when you see the smoke outside but if you have a lot of exposure to it over time, it also has an effect on mortality,” said Vipond. Vipond also noted that multiple studies have shown urban and wildland firefighters have higher rates of cancer than the rest of the population. Duguid said he hasn’t been able to test the device in the field because of legal restrictions but hopes his fellow firefighters will be using it in a few years. “But, honestly, even if it just sparks a conversation, I think it’ll be a win,” said Duguid. The Canadian Press. Oct. 7, 2024. Rocky Mountain Outlook. Yahoo Finance. **RAWSEP View.** This article does a good job of describing the adverse health effects of inhaling wood smoke whether from wildfires or from indoor residential wood burning. Perhaps the respirators currently offered to wildfire fighters are too heavy to put on and take off repeatedly during the day. It seems to RAWSEP that to be effective that respirators must cover both the nose and mouth. The hope of Residents Against Wood Smoke Emission Particulates is that as this inventor wishes this article will spark a conversation. Additionally RAWSEP hopes that the conversation will expand to educate the general public on the adverse health effects of all wood burning. Wildfire burning is wood burning and the PM2.5 emissions from wildfire burning are like the wood burning emissions of indoor residential wood burning. Wood burning emits 2.8 times the CO2 and PM2.5 as the fossil fuel coal burning. Wood burning emits 450 times the PM2.5 as the fossil fuel natural gas burning. Wood burning is 90% 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. Do not burn wood to begin with even when wood burning restrictions during wildfire incidents are lifted. Wood burning emissions also contribute to hastening climate change and wildfire in a feedback loop of more indoor residential wood burning more wildfires. Do not continue to pollute the air and harm the health of your family and yourself when you do not have to. Heat Pumps with Heat Pump rebates are available in 2024 as the clean alternative to indoor residential wood burning for home heating and cooling. 8B Canada British Columbia Kelowna. Grey smoke above Kelowna Walmart from pallet fire. Kelowna Capital News. A number of wood pallets ignited and sent grey smoke into the air. Crews had the fire extinguished shortly after arriving on scene. The cause of. 9A United Kingdom. **RAWSEP View.** The obligatory newspaper headline description of wood burning as cozy or genuflection to what may seem to be a pitiable addictive compulsion to burn wood may not be obligatory to retain newspaper readership once the majority of people in the United Kingdom are aware that wood burning is hazardous to their health and to the health of their near neighbors and in fact hastens climate change. For those reasons alone wood burning in no way cozy. Surprisingly to some, wood contains no nicotine or other highly addictive substance so it is easy for a person to stop burning wood in comparison to stopping smoking cigarettes or in comparison to stopping drinking alcohol if one is an alcoholic for that matter. The hack of wood burning is not a hack that saves time or money. In fact burning wood is not a hack because burning wood is logistically difficult because of the necessity of hauling wood so burning wood does not save time. Wood burning is not a hack because the true easy solution for home heating is the truly clean home heating alternative of Heat Pumps that work down to 40 degrees below zero, double as air conditioners and lower monthly electricity heating bills immediately.

Heat Pumps are available with Heat Pump Rebates for the indigent up to the middle class in 2024. Any hack of wood burning is only the hacking cough that wood burning initiates, which also heralds probable lung cancer, asthma or other adverse health conditions in the future and the attendant health care costs for treatment of illness and the costs of an early death both to the individuals and to society. From the article headline. This cozy home warming 'hack' could land you with a £300 fine. Metro UK. The Government's Clean Air Strategy 2019 named wood burning stoves as being accountable for 38 percent of particulate matter air pollution. This cozy home warming 'hack' could land you with a £300 fine. UK News Metro. The Government's Clean Air Strategy 2019 named wood burning stoves as being accountable for 38 percent of particulate matter air pollution. 9B United Kingdom. Unitherm acquired by Purmo Group. Cooling Post. heat pump supplier Unitherm Heating Systems. Established in 2004 heating and cooling and heat pumps. With approximately 2950 employees. 9C United Kingdom England. Novel heat pump technology promises to slash emissions for British brewery Current News. A Sussex brewery Hepworth Brewery has installed a Green steam heat pump developed by Surbiton based startup Futra heat. 9D Households with wood burners hit with threat of £300 fine from October. Yahoo News UK. Most of England is now covered by Smoke Control areas and if you live in one. "These rules mean that only some people with a woodburning stove or. 9E United Kingdom Birmingham. Households with wood burners hit with threat of £300 fine from October. Birmingham Live. Breaching these rules by producing too much smoke can lead homeowners with £300 fines. Persistent offenders could even face criminal charges. Daily Express. Smoke Control Areas for log burning stoves explained Households across the UK are being warned they face fines of £300 in October if they use a log. United Kingdom Birmingham. Households with wood burners hit with threat of £300 fine from October Birmingham Live. Most modern wood burners available are DEFRA approved so many stove owners do not need to worry." "If you want to upgrade an older wood burner that. United Kingdom Birmingham. Warning as new rules could see homeowners face £300 fine in their bid to keep warm. Birmingham Live. wood burning or multifuel stoves can release harmful gases. To mitigate the risk of dangerous pollutants from domestic burning new regulations. 9F United Kingdom London. Is my wood burner illegal? Homeowners warned they could risk £300 fine The Mirror. **RAWSEP View**. Its photo rich tabloid format has consistently stressed sensational human interest and personal types of stories and its politically independent stance has enabled it to adopt a "common man versus bureaucracy" approach to many stories. From the article headline. wood burning or multifuel stoves releases gases can be dangerous. Is my wood burner illegal? To lower the risk of harmful pollutants from domestic burning new rules came into play last month which could see local councils in England issuing. 9G United Kingdom London. Wood burner rules you need to know to avoid £300 fine Express.co.uk Daily Express. **RAWSEP View**. The paper's editorial stances have often been seen as aligned to Euroscepticism and supportive of the UK Independence Party October 6UKIPOctober 6 and other rightwing factions including the European Research Group October 6ERGOctober 6 of the Conservative Party. From the article headline. The UK government is tightening up the rules on wood burners but that doesn't mean they're illegal. Here's everything you need to know before you. 9H United Kingdom Yorkshire. Households using wood burning stoves or log burners face £300 fines in October. Yorkshire Live. 9i United Kingdom Scotland. Scotland's heat pump hotspots revealed including cheapest areas for installations. MSN. The technology works like a refrigerator in reverse by taking heat and energy from outside sources and pumping it back into buildings to warm them. 10 Sweden. Looking to our neighbors for heat pump inspiration. ACR Journal. **RAWSEP View**. NIBE is a global group that develops

and manufactures intelligent energy efficient indoor comfort solutions for all types of properties. From the website. It all started in Markaryd in the Swedish county of Småland 70 years ago heat pump market. From the article headline. At NIBE we have a unique position on heat pumps firstly our core market is heat pumps and it has always been. 11 Estonia Tallinn. Baltic Sea could be used to heat homes in future. ERR Baltic seawater could be used to heat homes in the future and Tallinn has favorable conditions to do so Estonian scientists believe. But many factors including the environment need to be taken into account. pumping water from that depth senior researcher Ilja Malyutenko said. If the nutrient rich water used in the heat pump is discharged back into. 12 Finland and Ireland. EU project to develop heat pump with PCM storage. Cooling Post. FINLAND/IRELAND Purmo Group the Finnish climate solutions company has acquired air to water heat pump supplier Unitherm Heating Systems. 13 Germany. The route to a heat pump fueled future for commercial buildings ACR Journal. Pete Mills Commercial Technical Operations Manager at Bosch Commercial & Industrial gives his take on heat pumps and how taking a hybrid approach. 14 Albania. Government subsidies for heat pumps choose ECOTEK for heating your home Telegrafi. Telegrafi is an Albanian language news website published in Kosovo. It was founded on December 25 2006. heat pump you choose. However most homeowners can save hundreds of euros a year on their energy bills by switching to a heat pump system. 15A India. Back to black Bangalore Mirror. PM 2.5 emissions said Dr. R Subramanian sector head of Air Quality Centre for Study of Science Technology and Policy October 6CSTEPOctober 6. Getting rid. 15B India. Delhi Winter Air Pollution: Are We Prepared For The Crisis? Outlook India. With an alarming spike in PM 2.5 levels the health and environmental implications are dire. This article delves into the problems associated with. 16 South Korea. FYI News Briefs in HVAC October 7, 2024. ACHR News. MANUFACTURERS. LG Electronics October 6, 2024. Seoul South Korea. October 6 hosted the first ever meeting of the Global Heat Pump Consortium. Trane Technologies. 17A PM2.5 and cerebral atrophy. Researchers link air pollution to cerebral atrophy but find no impact on cognitive function. News Medical. They found that high exposure to fine particulate matter of diameter less than 2.5 micrometers October 6PM2.5October 6 was associated with lower gray matter and 17B PM2.5 and Disease Progression. Air Pollution Increases IPF Exacerbations But Role in Disease Progression Remains Uncertain. American Journal of Managed Care. More specifically each IQR increase in nitrogen dioxide October 6NO 2October 6 nitrogen oxide October 6NOxOctober 6 and particulate matter 2.5 October 6PM 2.5October 6 was associated with greater.