

Episode 56UR, June 12, 2024. Massachusetts S.2137 for heat pump subsidies, not wood burning. In Episode 56UR 1)RAWSEP's editor would like to address the idea of backlash against taking an indoor residential wood burning appliance away from an individual residential wood burner or taking any method of wood burning for energy away from the wood burning industry. The idea of having "skin in the game", according to Wikipedia, is new, not a traditional idea. The origin of the phrase is uncertain but may have originated from golf skins games played at the International Business Machines company (IBM) in the 1980s. 2)Massachusetts, Montague. The Hampshire Gazette. A Physician's comment: Forest-derived biomass is a burning health issue. RAWSEP View: Support Massachusetts Senate Bill S.2137 and Massachusetts House Bill H.3211, part of which states "For intermediate or large generation units, no woody biomass fuel shall be considered an alternative energy supply." Instead, the Massachusetts Senate should provide subsidies for solar hot water, air source heat pumps, and geothermal systems, instead of forcing ratepayers to pay for expansion of wood burning in Massachusetts. Please do not support subsidies for polluting wood burning which leads to an increase in lung cancer, emphysema, asthma, and early deaths. 3)World. Art meets science, photos that capture killer dust. We breathe them without fighting them. RAWSEP View: Characterizing PM2.5 as dust in this headline, without identifying the human-caused source of the dust, often indoor residential wood burning, does a disservice to the readers of this article who are looking for facts, a problem, at least one identified source of the problem, and a proposed solution. 4)United States. RAWSEP View: Isn't a sooty flavor the point of cooking with wood? This news story is absurd, telling consumers that food tasting like wood on fire (soot) is not the objective of wood burning for cooking. If you lie down with dogs, you end up with fleas. If you cook with wood, your food ends up tasting like wood on fire, sooty, contaminated, and dirty tasting. The alternative is to cook with electric appliances, powered by a clean electric grid, so that you are not just producing food that tastes good and tastes clean, but you are not burning wood and so polluting your neighborhood and the world with CO2 and PM2.5 at levels 2.8 times the emissions from coal burning, and so not polluting your neighborhood and the world with PM2.5 at 450 times the levels of natural gas burning. 5)United States. RAWSEP View: This article is an example of the cynicism of the marketing of polluting wood burning. The wood burning marketers know that a clean alternative to wood burning exists in the form of Heat Pumps that work down to 40 degrees below zero and lower monthly heating bills immediately, and they even mention Heat Pumps in the wood burners' headline. The better, cleaner, less unhealthy backup to any disruption of the electric grid is also available in the form of natural gas or Liquid Petroleum Gas generators. 6)California. Wildfire smoke linked to over 52,000 premature deaths in California, study reveals. 7)Florida, Miami. Suspect behind shooting at downtown Miami apartment complex in custody and the fire is under control. RAWSEP View: Was the fire set intentionally by a suspect in a residential shooting? Fire is often used as a tool by terrorists. 8)Washington, Lake Chelan. Ground And Air Resources Fight Pioneer Fire Near Lake Chelan. 9)Washington, Lake Chelan. It's Smoke Ready Week in the Pacific Northwest (PNW). 10)United Kingdom, Haughley. Early hours fire at home in Wood View, off Fishponds Way, Haughley, near Stowmarket. RAWSEP View: The cause of the house fire is undetermined. The heavy smoke from the fire affected the entire neighborhood. 11)France, Versailles. Versailles briefly evacuated due to smoke from construction. 12)Africa, Kenya. Respiratory diseases plague Kenya from burning wood. 13)India, Kolkata. Green chulhas to be on frontline of state's fight against pollution, climate change. RAWSEP View: Green chulhas are incremental change. Wood burning should be replaced by solar stoves, or electric stoves across India, to truly deal with the harmful pollution of wood burning affecting people's health and lives adversely, as well as crippling the Indian economy. 14)Pakistan. Pakistan among top countries facing air pollution-related premature deaths. 15)Singapore. Experts blame air pollution for 135 million premature deaths. 16)Tibet. Tibetan Plateau shows unique stable carbon isotope characteristics of carbonaceous. 1)RAWSEP's editor would like to address the idea of backlash against taking an indoor residential wood burning appliance away from an individual residential wood burner or taking any method of wood burning for energy away from the wood burning industry. The idea of having "skin in the game", according to Wikipedia, is new, not a traditional idea. The origin of the phrase is uncertain but may have originated from golf skins games played at the International Business Machines company (IBM) in the 1980s. **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates, a 501c3 nonprofit organization.** Skin in the game (phrase) From Wikipedia, the free encyclopedia. To have "skin in the game" is to have incurred risk (monetary or otherwise) by being involved in achieving a goal. In the phrase, "skin" refers to an investment (literal or figurative), and "game" is the metaphor for actions on the field of play under discussion. The aphorism is particularly common in business, finance, and gambling, and is also used in politics. Etymology. It has commonly been attributed to Warren Buffett, referring to his own investment in



his initial fund. However, William Safire disputes that Buffett is the source of the phrase, pointing to earlier instances. In business and finance. The term is used to ask or convey an owner(s) or principals undefined but significant equity stake in an investment vehicle where outside investors are solicited to invest.[non sequitur] The theory is that principal's equity contribution is directly related to the stability of the investment and confidence that management has in the venture and is also (falsely) strongly correlated to the expected yield of the investment. According to the economist Joseph Stiglitz, there exists a correlation between excessive "skin" and lower returns. The main issues surrounding "skin" or excess "skin" is the principal-agent problem whereby transparency and fiduciary obligations are disregarded by principals who have capital or excess capital (skin) tied into an entity. Many banks and other financial institutions bar employees from having any "skin" where client capital is managed, principally to address the issue of front running and commingled funds (MF Global). Investment structures such as hedge funds, private equity, Trusts and mutual funds are legally limited to minority investment positions or are done to create a tax efficient structure. Typically equity inputs by these fiduciaries are around 0.5–2%. RAWSEP's editor sees backlash against taking away indoor residential wood burning. Indoor residential wood burners may think they have "skin in the game" of wood burning, since each indoor residential wood burner bought a wood burning appliance in the past. But this is a purely economic argument for unnecessarily burning wood in a modern society where there are cheaper alternatives in 2024, such as government rebated Heat Pumps that work down to 40 degrees below zero and lower monthly heating bills immediately upon use of the Heat Pump. There are also often wood stove changeout to Heat Pump programs that economically compensate former wood stove owners for abandoning what some may see as a possible financial asset, however much it pollutes the air. It is also statistically probable that future health care costs brought on by wood burning will dwarf any funds expended for a wood burning stove. Other human beings who think they have "skin in the game" of indoor residential wood burning are wood burning appliance vendors. But is it a stable investment to invest in an obsolete commodity? RAWSEP's editor also considers that near neighbors of indoor residential wood burners have "skin in the game", although this "skin in the game" is involuntary, and the skin is literally their own human skin, and lungs, and heart and eyesight, et cetera. Near neighbors are, to use another apt phrase, "canaries in a coal mine", statistically destined to probably endure health problems and early deaths because of their proximity to the PM2.5 emitted by the wood burning pollution unnecessarily practiced in their neighborhood. And as canaries in a coal mine, near neighbors are only proxies foretelling the worldwide health problems that are piling up incrementally every time one person decides to burn wood residentially. These economic phrases are being used purposefully to gain the attention of people who have only empty and specious economic arguments to make for continuing to burn wood residentially. Indoor residential wood burners put a little "skin in the game" and it is time for them to pull all of our skins out of the fire, because it probably never was economically sensible. In 2024 it is doubly economically insensible to burn wood residentially since the price to human health is ignored by only looking at the problem from an economic point of view. Don't persist in burning wood residentially and don't make economic arguments for burning wood residentially, because this backlash only provokes RAWSEP's editor to make these dull points again and again. 2)Massachusetts, Montague. The Hampshire Gazette. A Physician's comment: Forest-derived biomass is a burning health issue. RAWSEP View: Support Massachusetts Senate Bill S.2137 and Massachusetts House Bill H.3211, part of which states "For intermediate or large generation units, no woody biomass fuel shall be considered an alternative energy supply." Instead, the Massachusetts Senate should provide subsidies for solar hot water, air source heat pumps, and geothermal systems, instead of forcing ratepayers to pay for expansion of wood burning in Massachusetts. Please do not support subsidies for polluting wood burning which leads to an increase in lung cancer, emphysema, asthma, and early deaths. Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates, a 501c3 nonprofit organization. June 11, 2024. As a physician I saw many patients suffer and die from lung disease. Wood burning was often a factor, and one of the questions I'd ask of a patient with a respiratory illness was whether they used a wood stove. Wood burning is a major source of the tiny particles known as PM2.5 emissions (RAWSEP interjects that 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 human health problems and early deaths) which are a major cause of lung disease and aggravates emphysema and asthma. Why would we want to subject our whole population to the equivalent of living in a poorly ventilated home with a leaking wood stove? The wood products industry has also been promoting wood pellet burning in our schools and residential buildings, exposing our children to the potential life-shortening effects of these 2.5 particle emissions. Our (Massachusetts) state Legislature is considering doubling the existing subsidy for burning woody biomass. This would make more people, especially those



living near these facilities, susceptible to lung disease. Let the (Massachusetts) legislatures Ways and Means Committee know that a doubling of the subsidy for biomass burning in Massachusetts is exactly the opposite of what we need for our health and the climate. (Make Wood Burning in Massachusetts ineligible for subsidies). Alternatively, S.2137/H.3211 is a bill that will make commercial scaled and institutional heating facilities that burn wood fuels ineligible for subsidies under Massachusetts' Alternative Energy Portfolio Standard (APS). These facilities include wood-burning boilers and furnaces, which emit a disproportionately large amount of carbon dioxide and other air pollution in Massachusetts. Our money spent on higher utility rates, in the form of subsidies, should go to other non-emitting technologies under the APS such as solar hot water, air source heat pumps, and geothermal systems. Instead of forcing ratepayers to pay for the expansion of large-scale wood burning, please ask your senators and representatives to support bill S.2137/H.3211. A physician, Montague, Massachusetts. Bill S.2137 SECTION 1. Section 11F1/2 of chapter 25A of the General Laws, as appearing in the 2020 Official Edition, is hereby amended by adding at the end of subsection (a) the following:-


For intermediate or large generation units, no woody biomass fuel shall be considered an alternative energy supply. SECTION 2. This act shall not apply to any biomass facility qualified by the department of energy resources as an alternative energy unit pursuant to section 11F1/2 of chapter 25A of the General Laws as of January 1, 2023. SECTION 3. This act shall take effect upon its passage. Official Summary, Bill Text. By Mr. Gomez, a petition (accompanied by bill, Senate, No. 2137) of Adam Gomez, Orlando Ramos and Jack Patrick Lewis for legislation to limit the eligibility of woody biomass as an alternative energy supply. Telecommunications, Utilities and Energy. Sponsors: Adam Gomez primary (D - Hampden), Orlando Ramos cosponsor (D - Ninth Hampden), Jack Patrick Lewis cosponsor (D - Seventh Middlesex), and Joanne M. Comerford. 3)World. Art meets science, photos that capture killer dust. We breathe them without fighting them. RAWSEP View: Characterizing PM2.5 as dust in this headline, without identifying the human-caused source of the dust, often indoor residential wood burning, does a disservice to the readers of this article who are looking for facts, a problem, at least one identified source of the problem, and a proposed solution. The proposed solution should be ending indoor residential wood burning as a first step, possibly seen as low-hanging fruit. FIRStonline Every day we breathe PM 2.5 particles that are very harmful, surround our existence and they shorten life of millions of people. We don't see them. 4)United States. RAWSEP View: Isn't a sooty flavor the point of cooking with wood? This news story is absurd, telling consumers that food tasting like wood on fire (soot) is not the objective of wood burning for cooking. If you lie down with dogs, you end up with fleas. If you cook with wood, your food ends up tasting like wood on fire, sooty, contaminated, and dirty tasting. The alternative is to cook with electric appliances, powered by a clean electric grid, so that you are not just producing food that tastes good and tastes clean, but you are not burning wood and so polluting your neighborhood and the world with CO2 and PM2.5 at levels 2.8 times the emissions from coal burning, and so not polluting your neighborhood and the world with PM2.5 at 450 times the levels of natural gas burning. Barbeque circles seem remarkably uninformed, or deliberately obtuse, about the pollution emitted by all wood burning, even hard wood burning. There is a sooty flavor to cooking using wood burning, because wood burning emissions are 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. Even some wood smoke flavorings have recently been banned in Europe, possibly because of the way they are made, using unnecessary wood burning. **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates, a 501c3 nonprofit organization.** The Wood Chips You Need To Avoid Grilling With At All Costs. MSN. In barbecue circles, the flavor produced by these woods is often called "clean" smoke. 8 Types Of Wood. "Softwoods like pine, cedar, and spruce contain high levels of resin and can produce a bitter, sooty flavor," he said. Not a single person at your barbecue is going to appreciate a piece of chicken or a steak that essentially tastes like a Christmas tree on fire. 5)United States. RAWSEP View: This article is an example of the cynicism of the marketing of polluting wood burning. The wood burning marketers know that a clean alternative to wood burning exists in the form of Heat Pumps that work down to 40 degrees below zero and lower monthly heating bills immediately, and they even mention Heat Pumps in the wood burners' headline. The better, cleaner, less unhealthy backup to any disruption of the electric grid is also available in the form of natural gas or Liquid Petroleum Gas generators. Though these fossil fuels, natural gas and liquid petroleum gas, are not clean energy, they are a reasonably clean bridge, in comparison to wood burning, and as a bridge to the cleaner alternatives of electric heat pumps powered by an electric grid powered by truly clean renewable energy which is wind, solar and geothermal energy. Excerpts from the article below, to show the outright misinformation of the wood stove industry in the face of the fact that wood burning is more expensive, highly polluting and unnecessary to heat homes or to cook meals. There must be a lot of money to be

PILOT PROJECT AT 6 VILLAGES, 5K SLUM HOMES

<ul style="list-style-type: none"> > Rural and urban households in Bengal 1.5 crore > Poor households using solid fuel 1.1 crore > CO2 generated per household per year 1.2 tonnes > Total carbon sequestration per year 13.2 million tonnes 	<ul style="list-style-type: none"> > Estimated monetized verified carbon value ₹1,190 crore per year > WBPCB's grant request from Special Assistance Scheme ₹100 crore > Proposed pilot project 6 villages and 5,000 slum households in Kolkata and Howrah, with expansion to 1 lakh rural households across Bengal 	 <p>A smokeless chulha</p>
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made from suckers who buy this malarky. **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates, a 501c3 nonprofit organization.** From the article: Wood stoves essential in transition to heat pumps. Biomass Magazine. Among the core topics were how change-out funds can best be used, how to reduce indoor wood smoke, improving firewood bank programs, switching from. Some homes are still being outfitted with coal stoves that can also burn wood, whereas wood stoves cannot safely burn coal. There is a historic. 6)California. Wildfire smoke linked to over 52,000 premature deaths in California, study reveals. MSN particulate matter $\leq 2.5 \mu\text{m}$ (PM 2.5) exposure from wildfire smoke in California between 2008 and 2018. Climate change, the spread of the wildland. News-Medical. A recent study published in the journal Science Advances investigated the long-term mortality effects of particulate matter $\leq 2.5 \mu\text{m}$ (PM2.5) exposure. 7)Florida, Miami. Suspect behind shooting at downtown Miami apartment complex in custody and the fire is under control. RAWSEP View: Was the fire set intentionally by a suspect in a residential shooting? Fire is often used as a tool by terrorists. WSVN wood frame. "This fire spread quickly throughout the common attic area and as well as the homes," City of Miami Fire Rescue Captain Ignatius Carroll. Firefighters rescue multiple people from burning Miami apartment building - WTSP.com fire," Carroll said, adding that the building's wood infrastructure helped fuel the fire. At least 30 people were rescued from the building. 8)Washington, Lake Chelan. Ground And Air Resources Fight Pioneer Fire Near Lake Chelan. NewsRadio 560 KPQ Fireplace Safety - Flammable Objects. Tip #1: Keep anything that can burn at least 3 feet from your fireplace or wood stove. 9)Washington, Lake Chelan. It's Smoke Ready Week in the Pacific Northwest (PNW) Lake Chelan News and Information. Lake Chelan Now. #SmokeReady themes · Wildfire smoke is a mixture of harmful gases (including carbon monoxide) and particle pollution (PM). · PM2.5 (particles of 2.5 micrometer size). 10)United Kingdom, Haughley. Early hours fire at home in Wood View, off Fishponds Way, Haughley, near Stowmarket. RAWSEP View: The cause of the house fire is undetermined. The heavy smoke from the fire affected the entire neighborhood. Suffolk News. Heavy smoke billowed through a village home after a blaze in the early hours, leaving one person requiring ambulance care. June 11, 2024. The fire service was alerted to the incident in Wood View, off Fishponds Way, Haughley, near Stowmarket, at 1.40am today. Three fire crews were sent to the scene. 11)France, Versailles. Versailles briefly evacuated due to smoke from construction. ABC News. The Walt Disney Company. wood in the roofing. The office said local firefighters quickly put out the smoke. The palace office said there were no injuries or damage to the. Palace of Versailles is briefly evacuated due to smoke from construction, with no damage or injuries. Yahoo News Canada. The palace press office told The Associated Press there was no fire, but smoke was emanating from a "hot zone" in the wood. 12)Africa, Kenya. Respiratory diseases plague Kenya from burning wood. World of Africa. WION YouTube. Respiratory diseases are affecting the health of millions of people in Kenya. Cooking with biomass like firewood is a big part of the problem. 13)India, Kolkata. Green chulhas to be on frontline of state's fight against pollution, climate change. RAWSEP View: Green chulhas are incremental change. Wood burning should be replaced by solar stoves, or electric stoves across India, to truly deal with the harmful pollution of wood burning affecting people's health and lives adversely, as well as crippling the Indian economy. Kolkata News. Times of India. **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates, a 501c3 nonprofit organization.** NTU researchers linked PM 2.5, harmful tiny particles, to diseases like stroke and cancer. "With the (cleaner than wood burning) Liquefied Petroleum Gas (LPG) or compressed natural gas (CNG) being unaffordable for the urban or rural poor. we wanted a tool which can facilitate complete combustion of (wood and other solid fuels) with 90% reduction of wood burning emissions. (RAWSEP View: If conventional wood burning emits 450 times the PM2.5 as natural gas burning, then 90% reduction would still mean that wood burning in green chulha's emits 45 times the PM2.5 as natural gas burning.) 14)Pakistan. Pakistan among top countries facing air pollution-related premature deaths. News Vibes of India. PM 2.5 with 2-5 million deaths per year. In Pakistan, a big factor apart from industrial waste is the massive housing crunch, leading to the loss. 15)Singapore. Experts blame air pollution for 135 million premature deaths. Newspaper. DAWN.COM The tiny particles called particulate matter 2.5, or "PM 2.5", are harmful to human health when inhaled because they are small enough to enter the. 135 million premature deaths possibly linked to fine particulate matter pollution: NTU study. YouTube. SINGAPORE: Pollution from man-made emissions and other sources like wildfires have been linked to around 135 million premature deaths worldwide between 1980 and 2020, a Singapore university said on Monday. 16)Tibet. Tibetan Plateau shows unique stable carbon isotope characteristics of carbonaceous. Phys.org wood), and surface soil samples on the Tibetan Plateau. By analyzing the $\delta^{13}\text{C}$ characteristics of total carbon (TC), water-insoluble particulate.

PILOT PROJECT AT 6 VILLAGES, 5K SLUM HOMES

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