

Episode 56TA April 14, 2024. Refutation of a wood burning polluter, using the World Bank OCA's 4 pronged plan.

In Episode 56TA 1A) 5)To expand into detail beyond the OCA's four pillars, fifth, consider not just the Health Care Costs to Governments of air pollution due to wood burning, there are also personal financial costs to near neighbors of indoor residential wood burners. A)Personal protective equipment such as ski goggles or other goggles that protect eyes, Covid-era face masks covering the nose and mouth, and gloves, long sleeves and long pants to protect the skin against irritation from wood smoke. B)Air purifiers inside the home. C)PurpleAir PM2.5 monitors outside. D)Health care costs. E)Insurance costs. F)Funeral costs. G)Cost of loss of half of efficiency of a near neighbor's installed solar panels when wood smoke infiltrates the near neighbor's yard. !B)United States. RAWSEP View: This article may be an example of what OCA has termed as failed mitigation of air pollution, a past practice that must be replaced by viewing clean air as an asset. This article from the USDA shows that the US erroneously still subsidizes wood burning for energy power plant use, at the cost of human health, and simultaneously, in the view of OCA, applied to wood burning and other methods of air pollution, to financial detriment around the world. 1C)New Jersey. RAWSEP View: This letter to the editor states that homeowners could do more to reduce pollution by embracing Heat Pumps for home heating. This letter uses the term fossil fuel only, and should have included the words wood burning as a significant source of air pollution. Hopefully this is because the letter writer has no first hand hyper-localized experience of the air pollution caused by indoor residential wood burning in their neighborhood. The Letter writer does mention the harm of wildfire wood smoke. **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates, a 501c3 organization.** Last summer, many of us in New Jersey found ourselves retreating indoors as the skies filled with smoke from the Canadian wildfires. This smoke carried particulate matter (PM 2.5), harmful to our health. Even though the smoke dissipated, millions of New Jersey residents continue to breathe in unhealthy outdoor air. A new piece of [legislation](#) introduced by state Sens. Bob Smith and Andrew Zwicker would finally make a dent in this health-harming pollution by helping our most vulnerable community members receive a relatively new yet proven home upgrade: heat pumps. 1C)New York. RAWSEP View: This article ignores the financial hardship imposed on near neighbors of indoor residential wood burners. 5)To expand into detail beyond the OCA's four pillars, fifth, consider not just the Health Care Costs to Governments of air pollution due to wood burning, there are also personal financial costs to near neighbors of indoor residential wood burners. A)Personal protective equipment such as ski goggles or other goggles that protect eyes, Covid-era face masks covering the nose and mouth, and gloves, long sleeves and long pants to protect the skin against irritation from wood smoke. B)Air purifiers inside the home. C)PurpleAir PM2.5 monitors outside. D)Health care costs. E)Insurance costs. F)Funeral costs. G)Cost of loss of half of efficiency of a near neighbor's installed solar panels when wood smoke infiltrates the near neighbor's yard. 1E)RAWSEP View: 4)Solution. The solution to the air pollution from indoor residential wood burning would be to simply pass a Federal law that outlines the system for targeting, tracking and enforcing shutdown of polluting indoor residential wood burning above Environmental Protection Agency National Ambient Air Quality Standards (EPA NAAQS) or future more strict standards better applicable to making a real change from polluted air to clean air that can be seen as a real asset, a financial asset in the view of the World Bank. South Dakota and 21 other United States governors. 1F)RAWSEP View: It is not right to say "wood smoke is good smoke", to say the least. Canada. 1G)RAWSEP View: open waste burning is unnecessary and pollutes the air, to the detriment to the world and Greenland itself. 1H)RAWSEP View: wildfire in the Arctic is fueled by climate change which is often fueled by indoor residential wood burning. Arctic wildfire. 1J)RAWSEP View: RAWSEP is heartened by readers' support for a wood burning ban in Scotland. Those, in other articles about Scotland, who cite economics for continuing to burn wood ignore the subsidies for Heat Pumps that are offered to residents around the world in 2024. Beginning to use a Heat Pump immediately lowers monthly heating bills. Electrical connections are available to all homes in Scotland. **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates, a 501c3 organization.** With the majority of new-build homes being built by large property developers resulting in very densely populated housing schemes in order to maximise profit and space, mean that new-build houses are built in very close proximity to each other. For one householder to install a wood-burning stove in this kind of situation means that the householder and many of their neighbours are going to experience a severe reduction in the quality of air they breathe on a daily basis which will result in poor health. These health impacts were laid out in the recent report from Asthma and Lung UK Scotland. Whilst this new legislation for New-Build houses is good news for those of us who want to breathe clean air in the future, we do need legislation to address wood-burning in existing properties currently. 1K)RAWSEP View:



this article from Denmark remarks that labeling wood burning as renewable and clean is greenwashing, and is dangerous nonsense.

1L) RAWSEP View: wood burning cookstoves are being replaced by more clean wood burning cookstoves, a mitigation attempt in Africa, in Kenya. Hopefully in the future these cleaner wood burning cookstoves will be replaced by truly clean Heat Pumps or Solar Stoves.

1M) RAWSEP View: wood burning cookstoves are being replaced by more clean liquified petroleum gas (LPG) cookstoves, an attempt at mitigation of health denying wood burning air pollution in Bangladesh. Hopefully in the future these cleaner LPG burning cookstoves will be replaced by truly clean Heat Pumps or Solar Stoves. Bangladesh. Dacope is an upazila of Khulna District in the Division of Khulna, Bangladesh. Headlines.

1N) India. Guwahati. 1O) Thailand, Chiang Mai. 1P1) PM2.5 and Atrial Fibrillation. 1P2) PM2.5 and regulation by KDM5A. 1A) Refutation of those against us, Residents Against Wood Smoke Emission Particulates, a 5011c3 organization. 1A) RAWSEP View: The First bottom line, a public health bottom line, is that wood creates smoke and does not burn efficiently compared to other solid fuels such as the fossil fuel coal. So why continue to use wood for home heating and home cooking, much less why continue to use wood burning for energy power plants to replace coal burning power plants? The result of continuation of wood burning in all these sectors only continues unnecessary polluting of the air with PM2.5, when cheaper and clean or cleaner alternatives to wood burning are available in 2024. 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. To provide more detail: Wood burning emits 2.8 times the CO2 and PM2.5 as the fossil fuel coal burning. Wood burning emits 450 times the particulates as the fossil fuel natural gas burning. CO2 and PM2.5 both hasten climate change. The 2nd bottom line, a financial bottom line, is that wood burning is not cheaper than alternatives for home heating and cooking, and is not cheaper than coal burning for energy power plant generation. The financial bottom line is that governments provide subsidies for wood burning energy power plants, because wood burning has been erroneously labeled “renewable” like wind and solar energy are also labeled renewable, and so those two, wind and solar, are also given government subsidies, although, unlike wood burning, wind and solar energy are cheap and popular, and are in less need of the subsidies created by the government to stay afloat, although these subsidies to wind and solar should continue to push our society faster toward truly clean energy, wind and solar power, on an electric grid that extends to all rural areas, with hopefully a clean energy Heat Pump in each residence that works down to 40 degrees below zero (the Fahrenheit and Centigrade temperature scales briefly converge at 40 degrees below zero). The 3rd bottom line is that economists have a new argument against wood burning for energy, that clean air is a financial asset. Mitigation of pollution from wood burning has been attempted incrementally in the past. For a better future with lower health care costs, wood burning should be stopped.

4) What to keep your eye on this week when the World Bank and its ancillary group, Our Clean Air (OCA), meets in Washington, DC is whether OCA’s 4 part plan to treat clean air as a financial asset rather than a debit that drags down financial markets, which it does not do, whether OCA’s plan includes wood burning pollution elimination.

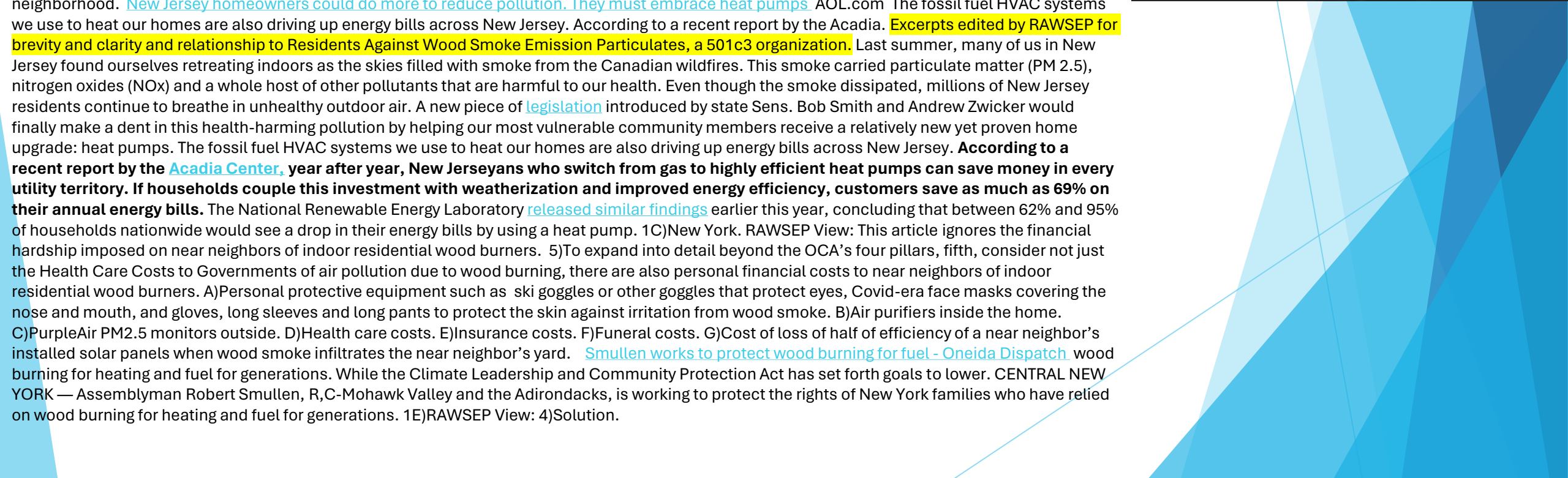
5) Eliminating fossil fuel pollution will have some effect, but around the world, the headlines that RAWSEP has been bringing you over the last two years point to air pollution from indoor residential wood burning home heating, outdoor residential wood burning home heating, indoor residential wood burning home cooking, outdoor residential wood burning home cooking, and wood burning energy power plants, as significant air pollutants which cannot be ignored if the goal is to treat clean air as an asset and act accordingly to provide a solution, to turn air polluted areas of the world clean, hyper-locally if necessary and one by one indoor residential wood burners at a time if necessary.

6) OCA has it right to use an AFTS approach 1) A for Asset. Treat Clean Air as an Asset. 2) F for Finance. An organization such as the World Bank should finance measures to create clean air, because the return on the investment will create the net Asset of Clean Air. 3) Target and Track progress. In the case of wood burning, target those previously mentioned emitters of PM2.5, Indoor residential wood burning for home heating or cooking and wood burning for energy power plants. As RAWSEP has previously mentioned the method of tracking in hyperlocalized areas would be a PurpleAir PM2.5 monitor hanging from the eaves of a near neighbor of an indoor residential wood burner whose PM2.5 wood smoke enters the near neighbors’ yard and sickens them. In this way, using a complaint based system, polluting indoor residential wood burning could be shut down, one indoor residential wood burning appliance at a time, if necessary. Putting monitors farther away, than, say, 100 feet, will only continue the practice of ignoring the pollution wood burning creates in a neighborhood setting.

4) Solution. The solution to the air pollution from indoor residential wood burning would be to simply pass a Federal law that outlines the system for targeting, tracking and enforcing shutdown of polluting indoor residential wood burning above Environmental Protection Agency National Ambient Air Quality Standards (EPA NAAQS) or future more strict standards better applicable to making a real change from



polluted air to clean air that can be seen as a real asset, a financial asset in the view of the World Bank. 5)To expand into detail beyond the OCA's four pillars, fifth, consider not just the Health Care Costs to Governments of air pollution due to wood burning, there are also personal financial costs to near neighbors of indoor residential wood burners. A)Personal protective equipment such as ski goggles or other goggles that protect eyes, Covid-era face masks covering the nose and mouth, and gloves, long sleeves and long pants to protect the skin against irritation from wood smoke. B)Air purifiers inside the home. C)PurpleAir PM2.5 monitors outside. D)Health care costs. E)Insurance costs. F)Funeral costs. G)Cost of loss of half of efficiency of a near neighbor's installed solar panels when wood smoke infiltrates the near neighbor's yard. 1L)RAWSEP View: wood burning cookstoves are being replaced by more clean wood burning cookstoves, a mitigation attempt in Africa, in Kenya. Hopefully in the future these cleaner wood burning cookstoves will be replaced by truly clean Heat Pumps or Solar Stoves. 1M) RAWSEP View: wood burning cookstoves are being replaced by more clean liquified petroleum gas (LPG) cookstoves, an attempt at mitigation of health denying wood burning air pollution in Bangladesh. Hopefully in the future these cleaner LPG burning cookstoves will be replaced by truly clean Heat Pumps or Solar Stoves. Bangladesh. Dacope is an upazila of Khulna District in the Division of Khulna, Bangladesh. !B)United States. RAWSEP View: This article may be an example of what OCA has termed as failed mitigation of air pollution, a past practice that must be replaced by viewing clean air as an asset. This article from the USDA shows that the US erroneously still subsidizes wood burning for energy power plant use, at the cost of human health, and simultaneously, in the view of OCA, wood burning and other methods of air pollution, to financial detriment around the world. [Using Woody Biomass Waste: Hand-Built Biochar Piles | USDA Climate Hubs](#) This technique contains the combustion, which helps the wood burn more efficiently and creates less smoke. Once the flames go out, the coals. Biochar quality can be variable (depending on quality of the wood, moisture conditions, burn temperature, etc.). Quenching the coals requires water. 1C)New Jersey. RAWSEP View: This letter to the editor states that homeowners could do more to reduce pollution by embracing Heat Pumps for home heating. This letter uses the term fossil fuel only, and should have included the words wood burning as a significant source of air pollution. Hopefully this is because the letter writer has no first hand hyper-localized experience of the air pollution caused by indoor residential wood burning in their neighborhood. [New Jersey homeowners could do more to reduce pollution. They must embrace heat pumps](#) AOL.com The fossil fuel HVAC systems we use to heat our homes are also driving up energy bills across New Jersey. According to a recent report by the Acadia. **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates, a 501c3 organization.** Last summer, many of us in New Jersey found ourselves retreating indoors as the skies filled with smoke from the Canadian wildfires. This smoke carried particulate matter (PM 2.5), nitrogen oxides (NOx) and a whole host of other pollutants that are harmful to our health. Even though the smoke dissipated, millions of New Jersey residents continue to breathe in unhealthy outdoor air. A new piece of [legislation](#) introduced by state Sens. Bob Smith and Andrew Zwicker would finally make a dent in this health-harming pollution by helping our most vulnerable community members receive a relatively new yet proven home upgrade: heat pumps. The fossil fuel HVAC systems we use to heat our homes are also driving up energy bills across New Jersey. **According to a recent report by the [Acadia Center](#), year after year, New Jerseyans who switch from gas to highly efficient heat pumps can save money in every utility territory. If households couple this investment with weatherization and improved energy efficiency, customers save as much as 69% on their annual energy bills.** The National Renewable Energy Laboratory [released similar findings](#) earlier this year, concluding that between 62% and 95% of households nationwide would see a drop in their energy bills by using a heat pump. 1C)New York. RAWSEP View: This article ignores the financial hardship imposed on near neighbors of indoor residential wood burners. 5)To expand into detail beyond the OCA's four pillars, fifth, consider not just the Health Care Costs to Governments of air pollution due to wood burning, there are also personal financial costs to near neighbors of indoor residential wood burners. A)Personal protective equipment such as ski goggles or other goggles that protect eyes, Covid-era face masks covering the nose and mouth, and gloves, long sleeves and long pants to protect the skin against irritation from wood smoke. B)Air purifiers inside the home. C)PurpleAir PM2.5 monitors outside. D)Health care costs. E)Insurance costs. F)Funeral costs. G)Cost of loss of half of efficiency of a near neighbor's installed solar panels when wood smoke infiltrates the near neighbor's yard. [Smullen works to protect wood burning for fuel - Oneida Dispatch](#) wood burning for heating and fuel for generations. While the Climate Leadership and Community Protection Act has set forth goals to lower. CENTRAL NEW YORK — Assemblyman Robert Smullen, R,C-Mohawk Valley and the Adirondacks, is working to protect the rights of New York families who have relied on wood burning for heating and fuel for generations. 1E)RAWSEP View: 4)Solution.



The solution to the air pollution from indoor residential wood burning would be to simply pass a Federal law that outlines the system for targeting, tracking and enforcing shutdown of polluting indoor residential wood burning above Environmental Protection Agency National Ambient Air Quality Standards (EPA NAAQS) or future more strict standards better applicable to making a real change from polluted air to clean air that can be seen as a real asset, a financial asset in the view of the World Bank. South Dakota and 21 other United States governors. [Cox among 22 Republican governors urging pause to new EPA air quality rule](#) Standard-Examiner. particulate matter, is scheduled to take effect May 6. "So much of the PM 2.5 that we experience in Utah comes from wildfires which are typically. [Gov. Noem and Colleagues Oppose Biden and EPA's Air Quality Standards - News](#) South Dakota State News. PIERRE, S.D. – Today, Governor Kristi Noem and 21 of her fellow Republican governors urged the Environmental Protection Agency under the Biden. 1F)RAWSEP View: It is not right to say "wood smoke is good smoke", to say the least. Canada. [Canadian conservationists push emission limits for wildfire reduction](#) Wildfire Today. The new research does not go so far to say that "wood smoke is good smoke", but they do use my new... January 30, 2010. Fire, Cascade, South Dakota. 1G)RAWSEP View: open waste burning is unnecessary and pollutes the air, to the detriment to the world and Greenland itself. [Open waste burning in Greenland linked to air pollution](#) Waste & Recycling. To better understand the air quality risks faced by remote Arctic communities, an international team monitored aerial pollutants at a community in. 1H)RAWSEP View: wildfire in the Arctic is fueled by climate change which is often fueled by indoor residential wood burning. Arctic wildfire. [Large transboundary health impact of Arctic wildfire smoke | Communications Earth & Environment](#) Nature. These fires lead to substantial deterioration in summer air quality in the region, with a factor 4 increase in summer fine particulate matter (PM2.5). 1i) RAWSEP View: a honey company's wood burning smoke pollutes yards of near neighbors, as indoor residential wood burning also does. Australia, Tasmania. ['Fed up' residents want Tasmanian honey company's smoke to buzz off - The Examiner](#) Mr Wolfhagen said that the wood heater is only used for about three or four months of the year and doesn't burn all year round. "The council has been. 1J1)RAWSEP View: RAWSEP is heartened by readers' support for a wood burning ban in Scotland. Those, in other articles about Scotland, who cite economics for continuing to burn wood ignore the subsidies for Heat Pumps that are offered to residents around the world in 2024. Beginning to use a Heat Pump immediately lowers monthly heating bills. Electrical connections are available to all homes in Scotland. [Readers' Letters: Support for wood burning ban, Gaza, NHS and Jacobite Steam Train controversy](#) The Scotsman. **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates, a 501c3 organization.** Communities Against Woodsmoke welcomes the recent legislation regarding the banning of polluting heating systems such as wood-burning stoves in. It makes sense from an environmental and health perspective to move away from the archaic burning of our rapidly declining woods and forests. The capacity of mature trees to store carbon cannot be underestimated and to cut these trees down and release decades of stored carbon into the atmosphere in one short burst is completely contradictory to the Scottish Government's pledge to reduce greenhouse gas emissions. With the majority of new-build homes being built by large property developers resulting in very densely populated housing schemes in order to maximise profit and space, mean that new-build houses are built in very close proximity to each other. For one householder to install a wood-burning stove in this kind of situation means that the householder and many of their neighbours are going to experience a severe reduction in the quality of air they breathe on a daily basis which will result in poor health. These health impacts were laid out in the recent report from Asthma and Lung UK Scotland. Whilst this new legislation for New-Build houses is good news for those of us who want to breathe clean air in the future, we do need legislation to address wood-burning in existing properties currently. <https://www.scotsman.com/news/environment/wood-burner-ban-crofters-and-remote-communities-face-tougher-lives-as-centralised-scottish-government-ignores-rural-needs-4585403>. Wood-burning continues to be a significant source of pollution in cities, towns and villages with regulations and monitoring being virtually non-existent.



The rise in popularity of wood-burning and the increase in its use mean that similar measures must be taken at this time if we are to seriously address net zero and the effects of air pollution on public health. We learnt our lesson many years ago from the burning of coal and the severe impact it had on health, the effects of which are still around today in many people. Wood-burning has been linked to a wide range of diseases, which is why we need legislation on this issue now. Letter Writer, Communities Against Woodsmoke. 1J2) [Scotland's wood burning rules explained as ban comes into force - Yahoo News UK](#) Scotland's wood burning rules explained as ban comes into force. Daily Record. Fri, 12 April 2024, Scotland's wood burning rules. 1J) Scotland. Idiot who states everything backwards. 1J3) [These powerful Inspired Idiots will take us back to the Stone Age | Schiff Sovereign](#) No more wood-burning stoves (because the smoke will pollute the air). So basically everyone in northern climates should just freeze to death or. Scotland. Articles Alphabetical by Publication Title. Scotland. 1J2)1 [Camley's Cartoon: The ban on woodburning stoves | The Herald](#) Steven Camley's take on the ban on woodburning stoves in new-builds. Framed prints of Steven Camley's cartoons are available by calling 0191 603. 1K4) [If only we had 'reasonable persons' in the Scottish Government | The Herald](#) READING today's letters about the ban on woodburning stoves in new homes and continuing concerns about how the hate crime laws are interpreted. 1J5) [No near end in sight for Scotland's weekly culture wars | The Herald](#) A so-called ban on wood burning stoves came as a surprise to former government ministers and residents alike. 1J6) Scotland. [Kate Forbes: Wood burner ban is an unnecessary hurdle for our rural communities - The National](#) I know of several householders, often older residents, who have unblocked chimneys and installed wood burners precisely because of the lack of. 1J6) Scotland. Kate Forbes, former finance minister. 1J7) [Rural business organisation calls for better 'rural-proofing' of policies in wake of wood](#) Ross-shire Journal. Scottish Land & Estates has called for better 'rural-proofing' of policies in the wake of the debacle over a ban on wood-burning stoves in new. 1K) RAWSEP View: this article from Denmark remarks that labeling wood burning as renewable and clean is greenwashing, and is dangerous nonsense. [Another update on the continuous challenge of greenwashing - Lexology](#) In fact, the Danish Environmental Protection Agency has found – in the context of the case before the Consumer Ombudsman – wood-burning stoves to be. 1L) RAWSEP View: wood burning cookstoves are being replaced by more clean wood burning cookstoves, a mitigation attempt in Africa, in Kenya. Hopefully in the future these cleaner wood burning cookstoves will be replaced by truly clean Heat Pumps or Solar Stoves. [Feature: Smokeless Jiko lighting way to greener future of Kenya - Xinhua](#) Surprisingly, the cookstove did not emit any smoke, as one would expect with any wood-fueled Jiko. "This is a smokeless cookstove, and it is very. 1M) RAWSEP View: wood burning cookstoves are being replaced by more clean liquified petroleum gas (LPG) cookstoves, an attempt at mitigation of health denying wood burning air pollution in Bangladesh. Hopefully in the future these cleaner wood burning cookstoves will be replaced by truly clean Heat Pumps or Solar Stoves. Bangladesh. Dacope is an upazila of Khulna District in the Division of Khulna, Bangladesh. [Coastal villagers shifted to LPG from Sundarbans firewood - The Daily Star](#) Starting from lighting the chula (a traditional wood-fired clay stove) to sitting by it amid smoke and heat, the homemaker from Khulna's Dacope. Headlines. 1N) India. Guwahati. [How Guwahati Air Emerged as World's 2nd Most Polluted - The Probe Environment | The open burning of waste, road dust from vehicles, and construction activities are causing particulate matter pollution in Guwahati. Infia, Guwahati. How Guwahati's Air Became World's 2nd Most Polluted - The Wire](#) PM 2.5–fine particulate matter 30 times finer than human hair—can enter the bloodstream leading to severe health issues. IndiaSpend previously. India, Hyderabad. [Junction Pollution Hits Localities Hard: Study | Hyderabad News - Times of India](#) Hyderabad: People living or working within a kilometre radius of major traffic intersections are at a higher risk of exposure to air pollution. 1O) Thailand, Chiang Mai. [Thick smog obscures sky over northern Thailand | Watch - MSN](#) PM 2.5 pollution - have soared from 20.3 per 100000 people in 2010 to 30.7 in 2019. Associate Professor Chalerm Liewisakul of Chiang Mai. 1P1) PM2.5 and Atrial Fibrillation. [Environmental Exposome and Atrial Fibrillation: Emerging Evidence and Future Directions](#) AHA Journals. There has been increased awareness of the linkage between environmental exposures and cardiovascular health and disease. Atrial fibrillation is. 1P2) PM2.5 and regulation by KDM5A. ScienceDirect.com Prenatal PM2.5 exposure causes down-regulation of KDM5A expression in offspring hippocampus. •. PM2.5 leads to inhibition of the SHH pathway and.

