

Episode 56YM 10 02 2024 Arrows in our Quiver. <https://www.huduser.gov/portal/datasets/il.html>

In Episode 56YM Arrows in our Quiver. Arrow A 1 through 10. 10 ways to deal with the air pollution from Indoor Residential Wood Burning. Arrow B 1 through 4 Money concerns are unfounded because a new clean energy economy will create new jobs. Arrow C 1 through 3 Inspiration from requiring emission limits for gas powered automobiles. Arrow D 1 through 3. Understand that Indoor Residential Wood Burning is not an addiction and it is within your individual power to stop Indoor Residential Wood burning in order to improve air quality by stopping burning wood.

Quiver for A.

Arrow A1 Fire hazard homes. A1A Insurance costs for fire hazard homes with wood burning devices inside. Homes within areas where many wildfires occur are being denied insurance coverage. Indoor residential wood burning contributes to the air pollution that drives climate change and increases the probability of wildfires occurring in a feedback loop where more wildfires create conditions for more climate change. A1B Compliance failures for fire hazard homes with wood burning devices inside. Insurance companies know that wood stoves cause many house fires. A1C Emissions in fire hazard homes or emissions suffered through in the yards of near neighbors make those homes worth less.

Arrow A2 PM2.5 emissions above National Ambient Air Quality Standards. A2A High EPA NAAQS within wood burning homes. This may not apply because emissions may be shunted to near neighbors by adequately sealed chimneys or stovepipes. A2B High PM2.5 emissions in the yards of near neighbors which sicken the near neighbors.

Arrow A3 Supporting documentation. A3A Medical Statistical and Scientific reports on the adverse health effects of PM2.5 on human beings. This includes lung cancer asthma and early deaths. A3B PurpleAir PM2.5 monitor data downloaded from public map of resident owned monitors of PM2.5 above NAAQS or World Health Organization PM2.5 limits of 5 micrograms per cubic meter annually.

Arrow A4 Ending Wood stove certification as safe. Wood stove certification as “safe” through Environmental Protection Agency New Source Performance Standards EPA NSPS is deeply flawed and should be discontinued, replaced by a complaint based system based on PurpleAir PM2.5 levels above safe levels in the yards of near neighbors of indoor residential wood burners.

Arrow A5 Replacing indoor wood stove use for home heating with Heat Pumps that work down to 40 degrees below zero run on electricity and lower monthly heating bills immediately.

Arrow A6 Pinpointing the problem. Eliminate the problem of air pollution from indoor residential wood burning for home heating. The superpower of PurpleAir PM2.5 Monitors is that they pinpoint the source of the air pollution which is indoor residential wood burning. When a problem is identified it can be eliminated. The objective of gathering data should be to shut down indoor residential wood burning one wood burning stove at a time if necessary.



Arrow A7 Use Heat Pump rebates to make the clean alternative to indoor residential wood burning affordable to all. The superpower of 2024 is a clean cheap or no cost alternative to indoor residential wood burning for home heating, Heat Pumps that work down to 40 degrees below zero run on electricity and lower monthly electricity heating bills immediately. Heat Pump beginning in 2024 are available with rebates up to \$8,000 based on a sliding income scale.

Arrow A8 Provide the public with simple tools to help them apply for Heat Pump rebates. A8A At 80 percent of median income a consumer can apply a rebate of up to \$8,000. A8B Heat Pump rebates of less than the full amount of \$8,000 based on a sliding income scale are available to United States citizens with 80 percent of median income up to \$150,000.

Arrow A9 RAWSEPresidents tools on website podcast and video. Residents Against Wood Smoke Emission Particulates is working on tools to make it easy to apply for and receive Heat Pump rebates. RAWSEPresidents added the first tool to their website podcasts and videos by publicizing the Housing and Urban Development HUD site where citizens can search for the 80 percent of median income in their county or municipality.

Arrow A10 That HUD website showing 80 percent of median income for any United States municipality is found at <https://www.huduser.gov/portal/datasets/il.html>

Quiver for Arrows B, C and D.

Arrow B Money concerns. B1 Costs to the Homeowner who now uses an indoor residential wood burner. B1A Cost to the Homeowner who lives in a Wildfire prone Area. RAWSEPresidents noted that insurance coverage has been denied in fire prone areas, which are usually wildfire prone areas. B1B Costs to the Homeowner who owns or uses a wood burning stove. RAWSEPresidents noted that insurance coverage has been denied to some homes which contain wood burning stoves because of the additional fire hazard of owning and using such unnecessarily unsafe heating practices. B3 Costs of healthcare to near neighbors of indoor residential wood burners whose wood smoke PM2.5 enters the yards of near neighbors and sickens them. B4 Costs are preventable if indoor residential wood burning is simply stopped and replaced with the clean alternative of Heat Pumps.

Arrow C Inspiration from requiring emission limits for gas powered automobiles. C1 Limiting emissions is a straightforward measurable regulation. Both gas powered automobiles and indoor residential wood burners create pollution in the form of 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.



Limiting emissions is an effective way to get manufacturers of gas powered automobiles to switch to manufacturing electric vehicles.

Limiting emissions is an effective way to get indoor residential wood stove owners to switch to Heat Pumps. C2 Learning from the opposition to limiting PM2.5 emissions from gas powered vehicles. C2A The main argument against limiting emissions from gas powered vehicles is that complying with safety standards has monetary costs to industry. C2B The main counter argument for limiting emissions from gas powered vehicles is that air pollution has monetary costs from escalating human health care costs and early deaths. C3A Another argument is that limiting emissions from gas powered vehicles is that it costs the United States jobs. C3B The counter argument to this is that the new clean energy economy creates jobs not just in the electric vehicle industry but also jobs in solar and wind energy and jobs in the new electrical grid and battery storage industries.

Arrow D Applying the inspiration that burning wood is not addictive and stopping burning wood is within your grasp. D1 Choosing to burn wood is unlike addictive behavior like smoking cigarettes or drinking alcohol. D1A Unlike smoking cigarettes burning wood is not physically addictive to human beings because wood contains no nicotine. D1B Unlike drinking alcohol burning wood is not a physical addiction to human beings. Heavy alcohol drinking caused by physical dependence can lead to an alcohol addiction. Wood burning emissions do not contain special substances that appeal to areas of the brain that feed alcohol addiction. D2 It is not scientifically proven that choosing to burn wood leads to brain damage directly. Unlike alcohol dependence and or alcohol addiction which can lead to brain damage it is not scientifically proven that use of wood burning leads to brain damage at least not on the scale that alcohol use can cause brain damage. D2A Chronic alcohol use can lead to brain damage in both gray and white matter. It can cause brain atrophy and shrink your brain over time. D2B The good news is that choosing to burn wood is a choice not an addiction. D2C With the knowledge that using an affordable clean alternative a Heat Pump is a smart choice for your health the health of your near neighbors and for the health of the world since the emissions from wood burning also hasten climate change it is a no brainer to stop burning wood indoors residentially. D3 Take a look at yourself and your decisions and decide to change. D3A Unlike only protesting, although for a good cause, against air pollution in front of industries who pollute, such as biomass wood burning facilities, you as a present indoor residential wood burner can stop wood burning immediately of your own free will because you are following your conscience. D3B You can make an individual decision immediately that will affect all society and improve the planet as well as immediately improve the health and lives of your near neighbors and incrementally improve the health and lives of all humans on earth.

