

Episode 56H | August 13, 2023. The amazing expandable list.

### **The A1) to A4) List (for those who understand science intuitively)**

**A1) Stop indoor residential wood burning**

**A2) Stop Biomass (wood burning) in industrial plants**

**A3) Stop conditions that spark wildfires**

**A4) Stop hastening climate change**

### **The B List (for those who want to understand science)**

**B1) Stop indoor residential wood burning.** Wood burning emits more CO<sub>2</sub> and PM<sub>2.5</sub> than the fossil fuel coal burning. Wood burning emits 450 times the PM<sub>2.5</sub> as the fossil fuel natural gas burning.

**B2) Stop Biomass (wood burning) in industrial plants.** Biomass burning is primarily wood burning. Wood burning emits more CO<sub>2</sub> and PM<sub>2.5</sub> than the fossil fuel coal burning. Wood burning emits 450 times the PM<sub>2.5</sub> as the fossil fuel natural gas burning.

**B3) Stop conditions that spark wildfires.** Indoor residential wood burning and biomass (wood) burning in industrial plants are the same wood burning as wildfire (wood) burning. Wood burning emits more CO<sub>2</sub> and PM<sub>2.5</sub> than the fossil fuel coal burning. Wood burning emits 450 times the PM<sub>2.5</sub> as the fossil fuel natural gas burning.

**B4) Stop hastening climate change.** PM<sub>2.5</sub> pollution from wood burning has immediate health effects on humans and causes early deaths. CO<sub>2</sub> emissions from wood burning hasten climate change, as PM<sub>2.5</sub> also does.

### **The C List (for those concerned with human health and the latest scientific and medical findings)**

**C1) Stop indoor residential wood burning.** Wood burning emits more CO<sub>2</sub> and PM<sub>2.5</sub> than the fossil fuel coal burning. Wood burning emits 450 times the PM<sub>2.5</sub> as the fossil fuel natural gas burning. The C list of adverse human health effects of wood burning PM<sub>2.5</sub> emissions includes lung cancer, asthma, heart attacks, and the most recent finding, antibiotic resistance. This means that if you get a viral infection, such as AIDS or COVID 19 and there are antibiotics to help you get over the infection, they will be less effective if at the same time you are inhaling PM<sub>2.5</sub> from wood burning emissions.

**C2) Stop Biomass (wood burning) in industrial plants.** Biomass burning is primarily wood burning. Wood burning emits more CO<sub>2</sub> and PM<sub>2.5</sub> than the fossil fuel coal burning. Wood burning emits 450 times the PM<sub>2.5</sub> as the fossil fuel natural gas burning. The C list of adverse human health effects of wood burning PM<sub>2.5</sub> emissions includes lung cancer, asthma, heart attacks, and the most recent finding, antibiotic resistance. This means that if you get a viral infection, such as AIDS or COVID 19 and there are antibiotics to help you get over the infection, they will be less effective if at the same time you are inhaling PM<sub>2.5</sub> from wood burning emissions.

**C3) Stop conditions that spark wildfires.** Indoor residential wood burning and biomass (wood) burning in industrial plants are the same wood burning as wildfire (wood) burning. Wood burning emits more CO<sub>2</sub> and PM<sub>2.5</sub> than the fossil fuel coal burning. Wood burning emits 450 times the PM<sub>2.5</sub> as the fossil fuel natural gas burning. Wildfires, like all wood burning involves The C list of adverse human health effects of wood burning PM<sub>2.5</sub> emissions which includes lung cancer, asthma, heart attacks, and the most recent finding, antibiotic resistance. This means that if you get a viral infection, such as AIDS or COVID 19 and there are antibiotics to help you get over the infection, they will be less effective if at the same time you are inhaling PM<sub>2.5</sub> from wood burning emissions. Wildfires also result in human beings fleeing from their homes on an emergency basis. Wildfires also result in casualties from human beings from dying in their own homes from inhaling wood smoke or from being burned within their homes.

**C4) Stop hastening climate change.** PM<sub>2.5</sub> pollution from wood burning has immediate health effects on humans and causes early deaths. CO<sub>2</sub> emissions from wood burning hasten climate change, as PM<sub>2.5</sub> also does. CO<sub>2</sub> emissions

increase every time there is a wildfire, and that also hastens climate change. It becomes a continuous loop of CO2 pollution from indoor wood burning, CO2 pollution from industrial (wood burning) power plants and CO2 pollution from wildfires, hastening climate change and at the same time sparking more wildfires from increasing global temperatures caused by CO2 emissions.

The D List (for those concerned with human health and the latest scientific and medical findings, and think laws can be passed, governments alerted to act, or think there are political solutions)

D1a) Stop indoor residential wood burning. Wood burning emits more CO2 and PM2.5 than the fossil fuel coal burning. Wood burning emits 450 times the PM2.5 as the fossil fuel natural gas burning. The C list of adverse human health effects of wood burning PM2.5 emissions includes lung cancer, asthma, heart attacks, and the most recent finding, antibiotic resistance. This means that if you get an infectious disease like a viral infection, such as AIDS or COVID 19 and there are antibiotics to help you get over the infection, they will be less effective if at the same time you are inhaling PM2.5 from wood burning emissions.

D1b) Ask the U S Government to use an updated version of Dr. Anthony Fauci's 1989 AIDS treatment "Parallel Track" idea for multiple U S Federal Government Agencies, used in 1989 by NIAID to combat death and also blindness during AIDS FDA clinical trials. Ask the U S Government, in 2023, to treat antibiotic resistance caused by PM2.5 from indoor residential wood burning, by stopping indoor residential wood burning, Dr. Fauci's 1989 "Parallel Track" idea for involvement of multiple U S Federal Government Agencies, the FDA AZT Clinical Trials to treat AIDS, continuing on a "Parallel Track" along with NIAID allowing use of the AIDS drug ganciclovir to cure blindness caused by use of AZT. Use "Parallel Track" in 2023 to combat adverse health effects and death if indoor residential wood stove "safe" certification by the EPA (New Source Performance Standards for Indoor Residential Wood Stoves, an inglorious tradition that began in 1988) continues despite D1bi) the February 2023 OIG (Office of the Inspector General, watchdog of the EPA) report stating indoor residential wood stove certification was "flawed" by lobbying of the wood stove industry resulting in loopholes that make most indoor wood stoves not actually meet EPA's lax certification standards, making cord wood burned in indoor residential wood stoves at 2 grams per hour emissions an unmet standard in "certified" indoor residential wood stoves sold in the past and up to 2023, and D1bii) the threat of a lawsuit for not meeting the every 8 year deadline (the last change was made in 2015 to NSPS) for changing NSPS (probably to lower limits of PM2.5 emissions) by August 2023, a lawsuit threat by 10 U S State Assistant Attorney Generals and a General Counsel.

D1c) A 2023 "Parallel Track" would involve the NIAID (National Institute of Allergy and Infectious Diseases (one of many U S National Institutes of Health), where Dr. Fauci was Director from 1984 to December 2022) allowing the government through its NIAID Federal Agency to hand out PurpleAir PM2.5 monitors to any near neighbors of indoor residential wood burners who complain to their health departments of PM2.5 emissions from wood burning entering their yards and infiltrating their homes, in order to regulate indoor wood burning and shut down indoor residential wood burning that violates NAAQS "safe" limits for PM2.5 (National Ambient Air Quality Standards) and to concurrently prevent antibiotic resistance caused by PM2.5 pollution from indoor residential wood burning emissions of PM2.5 above "safe" limits. The 2<sup>nd</sup> "Parallel" of the "Parallel" would involve the EPA continuing to certify as "safe" indoor residential wood stoves, as they have since 1988, presumably in response to the 1980's price of oil, since at that time wood was cheaper than the fossil fuel oil, and perhaps the polluting effects of wood burning were not yet known (although anyone with a sense of smell, taste, sight and touch might intuitively sense that wood burning, like tobacco smoking, was not good for human health. However, wood burning has the advantage over cigarette smoking that indoor residential wood burning is not physically addictive, like the nicotine in cigarettes is.) The EPA indicated in a letter to the 10 Attorney Generals suing for timely (in 2023) change of NPSP every 8 years, that instead of meeting the deadline of 2023, the EPA might instead aim for 2027. Now that alternatives to indoor residential wood burning are plentiful and cheap (the cost of wind and solar energy is going down every day and the Inflation Reduction Act provides subsidies for Heat Pumps that work at temperatures down to 40 degrees below zero Fahrenheit. Heat Pumps can also work as Air Conditioners, and are so efficient that they lower monthly heating bills.)

D2)Stop Biomass (wood burning) in industrial plants. Biomass burning is primarily wood burning. Wood burning emits more CO<sub>2</sub> and PM<sub>2.5</sub> than the fossil fuel coal burning. Wood burning emits 450 times the PM<sub>2.5</sub> as the fossil fuel natural gas burning. Wood burning emits more CO<sub>2</sub> and PM<sub>2.5</sub> than the fossil fuel coal burning. Wood burning emits 450 times the PM<sub>2.5</sub> as the fossil fuel natural gas burning. The C list of adverse human health effects of wood burning PM<sub>2.5</sub> emissions includes lung cancer, asthma, heart attacks, and the most recent finding, antibiotic resistance. This means that if you get a viral infection, such as AIDS or COVID 19 and there are antibiotics to help you get over the infection, they will be less effective if at the same time you are inhaling PM<sub>2.5</sub> from wood burning emissions.

D3)Stop conditions that spark wildfires. Indoor residential wood burning and biomass (wood) burning in industrial plants are the same wood burning as wildfire (wood) burning. Wood burning emits more CO<sub>2</sub> and PM<sub>2.5</sub> than the fossil fuel coal burning. Wood burning emits 450 times the PM<sub>2.5</sub> as the fossil fuel natural gas burning. Wildfires, like all wood burning involves The C list of adverse human health effects of wood burning PM<sub>2.5</sub> emissions includes lung cancer, asthma, heart attacks, and the most recent finding, antibiotic resistance. This means that if you get a viral infection, such as AIDS or COVID 19 and there are antibiotics to help you get over the infection, they will be less effective if at the same time you are inhaling PM<sub>2.5</sub> from wood burning emissions. Wildfires also result in human beings fleeing from their homes on an emergency basis which in the case of the Maui wildfire involved fleeing into the sea, where many drowned in attempts to save their lives. Wildfires also result in casualties from human beings from dying in their own homes from inhaling wood smoke or from burning down within their homes.

D4)Stop hastening climate change. PM<sub>2.5</sub> pollution from wood burning has immediate health effects on humans and causes early deaths. CO<sub>2</sub> emissions from wood burning hasten climate change, as PM<sub>2.5</sub> also does. CO<sub>2</sub> emissions increase every time there is a wildfire, and that also hastens climate change. It becomes a continuous loop of CO<sub>2</sub> pollution from indoor wood burning, CO<sub>2</sub> pollution from industrial (wood burning) power plants and CO<sub>2</sub> pollution from wildfires, hastening climate change and at the same time sparking more wildfires from increasing global temperatures caused by CO<sub>2</sub> emissions.

The E List (for those who wonder now, what can I do, how can I act?)

E1)Stop indoor residential wood burning. Wood burning emits more CO<sub>2</sub> and PM<sub>2.5</sub> than the fossil fuel coal burning. Wood burning emits 450 times the PM<sub>2.5</sub> as the fossil fuel natural gas burning. The C list of adverse human health effects of wood burning PM<sub>2.5</sub> emissions includes lung cancer, asthma, heart attacks, and the most recent finding, antibiotic resistance. This means that if you get a viral infection, such as AIDS or COVID 19 and there are antibiotics to help you get over the infection, they will be less effective if at the same time you are inhaling PM<sub>2.5</sub> from wood burning emissions. **Write a letter in August 2023 to the 13 US State Assistant Attorney Generals (or Deputy Attorney Generals or General Counsel) asking them to implement or ask for implementation by Federal Government Agencies of "Parallel Track" to stop indoor residential wood burning.**

E2)Stop Biomass (wood burning) in industrial plants. Biomass burning is primarily wood burning. Wood burning emits more CO<sub>2</sub> and PM<sub>2.5</sub> than the fossil fuel coal burning. Wood burning emits 450 times the PM<sub>2.5</sub> as the fossil fuel natural gas burning. Wood burning emits more CO<sub>2</sub> and PM<sub>2.5</sub> than the fossil fuel coal burning. Wood burning emits 450 times the PM<sub>2.5</sub> as the fossil fuel natural gas burning. The C list of adverse human health effects of wood burning PM<sub>2.5</sub> emissions includes lung cancer, asthma, heart attacks, and the most recent finding, antibiotic resistance. This means that if you get a viral infection, such as AIDS or COVID 19 and there are antibiotics to help you get over the infection, they will be less effective if at the same time you are inhaling PM<sub>2.5</sub> from wood burning emissions. **Write a letter (as countless scientists have done in the past, addressed to the U S Congress most notably in a 2020 letter from scientists) asking the Federal Government to stop designating wood burning as "Carbon Neutral" and start counting wood burning in power plants toward the U S's Climate Goals.**

E3)Stop conditions that spark wildfires. Indoor residential wood burning and biomass (wood) burning in industrial plants are the same wood burning as wildfire (wood) burning. Wood burning emits more CO<sub>2</sub> and PM<sub>2.5</sub> than the fossil fuel coal burning. Wood burning emits 450 times the PM<sub>2.5</sub> as the fossil fuel natural gas burning. Wildfires, like all wood burning involves The C list of adverse human health effects of wood burning PM<sub>2.5</sub> emissions includes lung cancer,

asthma, heart attacks, and the most recent finding, antibiotic resistance. This means that if you get a viral infection, such as AIDS or COVID 19 and there are antibiotics to help you get over the infection, they will be less effective if at the same time you are inhaling PM2.5 from wood burning emissions. Wildfires also result in human beings fleeing from their homes on an emergency basis which in the case of the Maui wildfire involved fleeing into the sea, where many drowned in attempts to save their lives. Wildfires also result in casualties from human beings from dying in their own homes from inhaling wood smoke or from burning down within their homes. **Stop wood burning, do not replace fossil fuel burning with wood burning, stop decimating forests around the world to fuel industrial wood burning plants in this country and countries around the world such as the Drax facility in the United Kingdom.**

E4) Stop hastening climate change. PM2.5 pollution from wood burning has immediate health effects on humans and causes early deaths. CO2 emissions from wood burning hasten climate change, as PM2.5 also does. CO2 emissions increase every time there is a wildfire, and that also hastens climate change. It becomes a continuous loop of CO2 pollution from indoor wood burning, CO2 pollution from industrial (wood burning) power plants and CO2 pollution from wildfires, hastening climate change and at the same time sparking more wildfires from increasing global temperatures caused by CO2 emissions. **Do what you can as an individual. What you do matters, such as stopping individual indoor residential wood burning.**