

Episode 56 June 3, 2024. Jeopardy Africa, Asia, UK and Scotland Wood Smoke PM2.5 pollution.

Jeopardy. Six Categories. Africa Wood Smoke PM2.5 pollution. Asia Wood Smoke PM2.5 pollution. United Kingdom Wood Smoke PM2.5 pollution. Scotland Wood Smoke PM2.5 pollution. 1)How to prove Wood Smoke PM2.5 pollution. 2)How to prove Wood Smoke PM2.5 pollution.

Africa Wood Smoke PM2.5 pollution. \$200 Answer. African women walk miles every day to search for this scarce resource, in dangerous conditions. \$200 Question. What is wood collected for domestic burning? \$400 Answer. Heat pumps are a clean renewable heat technology introduced recently here. \$400 Question. What is Kenya? \$600 Answer. Installation cost of a typical geyser heat pump system, depending on the size of the geyser in South Africa. \$600 Question. What is R23500 (South African Rand) or \$1,250 as of June 2, 2024? \$800 Answer. Green Building Africa says this percent reduction in energy costs can be achieved by installing a heat pump. \$800 Question. What is 60 percent reduction? \$1,000 Answer. The percentage of African households, about one billion people, who still cook using smoky, high-emissions fuels, such as wood, that contribute to climate change and take a heavy toll on women's health. \$1,000 Question. What is 80 percent?

Asia Wood Smoke PM2.5 pollution. \$200 Answer. Poor air quality in South Asia is often “brick kiln industrial emissions, agricultural waste burning, and cremation”, and the burning of this for cooking and heating, especially during colder months, adds to the air pollution. \$200 Question. What was solid fuel burning, including wood burning? \$400 Answer. The contribution of the farmer’s field stubble-burning fires to the air pollution in Delhi in the months of October through November 2021. \$400 Question. What was 30 to 35 percent ? \$600 Answer. Annual particulate matter (PM2.5) concentrations in India averaged this recently. Levels remained 10 times above the World Health Organization’s recommended limit of five micrograms per cubic meter. \$600 Question. What is 54.4 micrograms per cubic meter of air ($\mu\text{g}/\text{m}^3$) in 2023? \$800 Answer. Experts are skeptical that India’s capital New Delhi’s first “smog tower” will reduce air pollution blamed for thousands of premature deaths every year. \$800 Question. Do giant outside air purifier towers work to reduce PM2.5 pollution? \$1,000 Answer. 2023’s most polluted city was Begusarai, India at a 118.9 micrograms per cubic meter annual average. \$1,000 Question. What city had the highest annual PM2.5 average in 2023?

United Kingdom Wood Smoke PM2.5 pollution. \$200 Answer. A UK EcoDesign wood stove emits 450 times the PM2.5 as a natural gas furnace. \$200 Question. Is the cleanest burning wood stove in the UK cleaner than natural gas burning? \$400 A UK EcoDesign wood stove emits 2.8 times the PM2.5 and CO₂ as the fossil fuel coal burning. \$400 Question. Is the cleanest burning wood stove in the UK cleaner than coal burning? \$600 Answer. In a UK smoke control area EcoDesign wood stoves are allowed. Unallowed wood burning stoves emit more PM2.5, \$600 Question. In UK smoke control areas, are wood burning PM2.5 emissions 450 times those of natural gas burning, still allowed? \$800 Answer. UK Clean Air Night on January 24, 2024, shone a light on three uncomfortable truths about wood burning. (Number 1 truth of 3) wood burning harms your wallet. \$800 Question. UK’s Clean Air Night’s 2nd and 3rd messages were 2)Wood burning harms your health and 3)Wood Burning harms the planet. What was the first Clean Air Night message? \$1,000 Answer. The Clean Air (Human Rights) Bill, or Ella’s Law, would establish the human right to breathe clean air precisely and explicitly in UK law. \$1,000 Question. What is the pending UK legislation named for a 9-year-old girl who died in 2014?

Scotland Wood Smoke PM2.5 pollution. \$200 Answer. A Scotland Law went into effect on April 1, 2024 to ban wood stoves in new construction. \$200 Question. What legislation passed in the Scottish Parliament effective April 1, 2024, that protects clean air? \$400 Answer. How you could protect the health of your near neighbor in Scotland. \$400 Question. Why not voluntarily stop wood burning and replace it with a government-subsidized Heat Pump? \$600 Answer. In Scotland, Grant funding for new heat pumps is up to £7,500, or £9,000 if the household qualifies for the rural uplift. \$600 Question. Why do Heat Pumps provide a cheaper home heating solution in Scotland? \$800 Answer. The Scotland ban on wood burning in new construction was designed to help reduce air pollution and tackle climate change. \$800 Question. Were oil and gas boilers also banned, along with banning wood burning appliances, in new construction in Scotland? \$1,000 Answer. Beginning on April 1, 2024, new homes built in Scotland are not allowed to use direct emission heating systems such (oil and gas boilers), nor bioenergy sources (wood and log burning stoves) and will need to use "climate-friendly alternatives" such as heat pumps or heat networks. \$1,000 Question. Were oil and gas boilers also banned, along with banning wood burning appliances, in new construction in Scotland?

1)How to prove Wood Smoke PM2.5 pollution. \$200 Answer. Use percentage of PM2.5 over NAAQS in the yard of a near neighbor of an outdoor wood burner instead of NSPS* as proof of pollution. *NSPS is New Source Performance Standards. \$200 Question. Reason 1: Why not use NSPS for wood stoves to stop PM2.5 air pollution affecting the health of near neighbors? \$400 Answer. The Office of the Attorney General (O I G), Watchdog of the EPA stated in February 2023 that the EPA's NSPS wood stove certification was a failed program. \$400 Question. Reason 2: Why not use NSPS for wood stoves to stop PM2.5 air pollution affecting the health of near neighbors? \$600 Answer. 10 U.S. State Attorneys sued the EPA in August 2023 to improve the NSPS program, but in Spring 2023 the EPA had already replied that any changes could only possibly happen in 2027. \$600 Question. Reason 3: Why not use NSPS for wood stoves to stop PM2.5 air pollution affecting the health of near neighbors? \$800 Answer. Go to your local Health Department, or even to the United States Department of Health and Human services. \$800 Question. Where could PurpleAir Monitor owners who are near neighbors of indoor residential wood stove burners go with their data on percentage above NAAQS in a 3-day period? \$1,000 Answer. PurpleAir PM2.5 monitors are already used on EPA AirNow Maps of Smoke and Fire alongside \$100,000 EPA PM2.5 monitors. \$1,000 Question. Why are PurpleAir PM2.5 monitors the best resident owned monitors to use to collect data on air pollution? 2)How to prove Wood Smoke PM2.5 pollution. \$200 Answer. $(PA \text{ times } 0.514) \text{ plus } 1.8304$, \$200 Question. What is the simple Mathematical Formula that the Wisconsin Department of Natural Resources uses to correlate PurpleAir PM2.5 data with \$100,000 EPA monitor data? \$400 Answer. Wood burning emits 2.8 times the C O 2 & PM2.5 as coal burning. \$400 Question. Is the fossil fuel coal burning cleaner than wood burning? \$600 Answer. Wood burning emits 450 times the PM2.5 as the fossil fuel natural gas burning. \$600 Question. Is the fossil fuel natural gas burning cleaner than wood burning? \$800 Answer. 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. \$800 Question. Are wood burning emissions harmful to human health? \$1,000 Answer. Get a PurpleAir PM2.5 monitor, download data, or your local Health Department can download PM2.5 data during ordinary government working hours. \$1,000 Question. What can I do to stop PM2.5 emissions from neighborhood indoor residential wood burning?