



PASSED April 13, 2023. WI Conservation Congress
Wisconsin government should provide citizen-scientist residents 2.5 micrometer Particulate Matter PM2.5 air quality monitors to end residential wood burning, which emits excessive hyper-localized PM 2.5 health harm to near neighbors. (requires legislation)

Category 1 \$200 PM2.5 size
Category 1 \$400 Current E P A “safe” annual level of PM2.5, in micrograms per meter cubed
Category 1 \$600 Current E P A “safe” daily level of PM2.5, in micrograms per meter cubed
Category 1 \$800 Environmentalists’ suggested annual 365 day average “safe” limit of PM2.5, in micrograms per meter cubed
Category 1 \$1000 Environmentalists’ suggested daily 24 hour average “safe” limit of PM2.5, in micrograms per meter cubed
Category 2 \$200 The percentage of indoor residential wood smoke burning emissions that are PM2.5
Category 2 \$400 The perfect size of particulate matter to infiltrate the human lung, in micrometers
Category 2 \$600 Two of the main health problems caused by indoor residential wood burning emissions
Category 2 \$800 Why near neighbors of indoor residential wood burners experience more wood burning pollution than other neighbors
Category 2 \$1000 Why near neighbors of indoor residential wood burners have to use air purifiers inside their homes.
Category 3 \$200 Residential heating method since 2019 has produced more PM2.5 pollution in the United Kingdom than vehicle exhaust
Category 3 \$400 Produces the most PM2.5 pollution in India during Diwali festival in December (not fireworks)
Category 3 \$600 What dirty heating devices NOT to supply to Ukraine, for humanitarian reasons (to prevent air pollution)
Category 3 \$800 What dirty heating devices NOT to supply to refugee camps, for humanitarian reasons (to prevent air pollution)
Category 3 \$1000 What dirty cooking devices NOT to supply to Africa, for humanitarian reasons (to prevent air pollution)
Category 4 \$200 Advanced technology that heats homes at down to 40 degrees below zero Fahrenheit
Category 4 \$400 European Country where wind energy recently, briefly, had a negative cost to consumers.
Category 4 \$600 Name of the lowest-cost industrial scale battery that can store 100 hours of energy at a time
Category 4 \$800 Wind and Solar energy price trajectory
Category 4 \$1000 Biomass (wood) burning economic viability without subsidies
Category 5 \$200 2 nd largest Biomass Plant in the World (receives subsidies from United Kingdom, and receives wood shipped from British Columbia and the U.S.)
Category 5 \$400 European Union cutback in 2022 of way of propping up Biomass (wood) burning economic viability
Category 5 \$600 Political theory that CO2 and PM2.5 emissions from Biomass (wood) burning don’t count, although wood burning produces higher levels of emissions than Coal burning.
Category 5 \$800 Scientists’ overwhelming opinion on whether Biomass (wood) burning is Carbon Neutral
Category 5 \$1000 Country that, as of April 2023, discloses amount of PM2.5 emitted from the stacks of its Biomass (wood) burning plants
Category 6 \$200 Maine Senator who was deciding vote to keep Carbon Neutrality in United States legal jargon in December 2022
Category 6 \$400 PM2.5 monitor brand that is used side by side with \$100,000 U. S. E P A PM2.5 monitors on Airnow Maps of Smoke and Fire
Category 6 \$600 How low-cost PurpleAir PM2.5 monitors are correlated with \$100,000 U.S. E P A monitors
Category 6 \$800 Low-cost technology that could measure fenceline PM2.5 emissions from indoor residential wood burning and store the data online for use by local government authorities
Category 6 \$1000 Local government department viewing data from hyper-localized PurpleAir PM2.5 monitors owned by near neighbors of indoor residential wood burners.

Category 1 \$200 2.5 micrometer
 Category 1 \$400 12
 Category 1 \$600 35
 Category 1 \$800 8
 Category 1 \$1000 25
 Category 2 \$200 90
 Category 2 \$400 2.5
 Category 2 \$600 Lung Cancer and Asthma
 Category 2 \$800 Hyper-localization of Emissions
 Category 2 \$1000 Infiltration of PM2.5 into neighbors’ homes
 Category 3 \$200 indoor residential wood stoves
 Category 3 \$400 agricultural stubble burning to clear fields.
 Category 3 \$600 indoor residential wood stoves
 Category 3 \$800 indoor residential wood stoves
 Category 3 \$1000 indoor residential wood stoves
 Category 4 \$200 Heat Pumps
 Category 4 \$400 The Netherlands
 Category 4 \$600 Iron-Air Batteries
 Category 4 \$800 Price trajectory downward
 Category 4 \$1000 No viability without subsidies
 Category 5 \$200 Drax
 Category 5 \$400 Cutback on subsidies for Biomass (wood) burning plants in European Union
 Category 5 \$600 Carbon Neutrality
 Category 5 \$800 Carbon Neutrality is not true.
 Category 5 \$1000 Japan
 Category 6 \$200 Maine Senator Susan Collins
 Category 6 \$400 PurpleAir PM2.5 monitor.
 Category 6 \$600 Correlated with a simple mathematical formula.
 Category 6 \$800 PM2.5 monitor.
 Category 6 \$1000 Health Department
 In February 2023 the **Office of the Inspector General (O I G)**, “**watchdog**” of the **Environmental Protection Agency (E P A)** issued a report stating that the Wood Stove Certification program was deeply flawed and allowed highly polluting wood stoves to be certified and continue to be sold. The loopholes that the wood burning industry lobbyists have insisted on is the reason that the certification of wood stoves is deeply flawed. There needs to be a new way for PM2.5 pollution from wood stoves to be regulated, by hyper-localized measurement of actual PM2.5 emissions at the stack or the fence line (the yard of a complaining near neighbors of a residential wood burner). Indoor Residential wood burning needs to be shut down, stack by stack if necessary, for human health and to slow climate change.

Residents Against Wood Smoke Emission Particulates (**RAWSEPresidents**) <https://RAWSEPresidents.wordpress.com> videos on Youtube & podcasts on Spotify. More podcasts at: podcasts.google.com, Amazon Music Prime (free for Prime subscribers), Castbox, and PocketCast (only Pocketcast Phone App is free. PocketCast works on Apple phones). Most Residents Against Wood Smoke Emission Particulates are near neighbors of Residential indoor wood burners who burn for aesthetic reasons or ambience. Wood smoke 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 & early death. Contact, join rawsepresidents@gmail.com
START You have an indoor wood burning neighbor: take action to stop the pollution!

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