

# Citizen Resolution # 131623



**Wisconsin government use citizen-scientist online data of PM2.5 residential wood burning emissions from hyper-localized Purpleair monitors to enforce ordinance or law to shut down residential wood burning for neighbor health. (requires legislation)**

In 2020, United States (US) Scientists wrote a letter to the U S Congress warning against declaring wood burning Carbon Neutral. Wood burning emits more PM2.5 than coal burning. PM2.5 is Particulate Matter of 2.5 micrometer size. Wood smoke is 90% PM2.5. PM2.5 is the perfect size to infiltrate the human lung, producing a cascade of human health problems and early deaths. Residential heat from solar, wind, and heat pumps that can work at low temperatures in Wisconsin during the winter, produces negligible particulate matter. Residential wood burning in even United Kingdom (UK) Ecodesign certified wood stoves, which are comparable to or less polluting than U S certified wood stoves, produces 450 times the polluting PM 2.5 as residential natural gas furnaces. This is shown by resident-owned PM 2.5 monitors of near neighbors of residential wood burners. U S Environmental Protection Agency (E P A) certification of wood stoves has been a failure in containing PM2.5 pollution. Hyper-localized Purpleair PM2.5 data, also shared on U S Airnow Smoke and Fire maps, is seen by the general public and government officials 24/ 7, allowing weekend and overnight data downloads from near neighbors' yards in normal working hours, with no need to enter residences to shut down residential wood burning. If U S E P A PM2.5 limits change to 8 micrograms per meter cubed annually and 25 micrograms per meter cubed daily, as expected, in 2023 PM2.5 polluting limits of residential wood stove use will be redefined. The European Union (E U) in 2022 stopped most subsidies for wood burning. In the U K 8% of residents burn wood but produce more PM2.5 in London and other U K areas than traffic. In 2023 the U K London mayor approved regulations of new and refurbished homes in London that effectively regulate wood stoves out of residential use, a movement to regulate PM2.5 from residential wood burning across the UK. Research papers show harmful effects of wood smoke PM2.5 on lungs, heart, and brain.

**Would you support legislative action to use citizen-scientist PM2.5 residential wood burning emissions online data using hyper-localized Purpleair monitors to enforce ordinances or laws to shut down residential wood burning for health of neighbors?**

Additional Information provided by author:

<https://news.mongabay.com/2020/05/scientists-warn-congress-against-declaring-biomass-burning-carbon-neutral/> Scientists warn

U.S. Congress against declaring biomass burning carbon neutral May 13, 2020

<https://www.express.co.uk/news/science/1732748/wood-burner-london-sadiq-khan-air-pollution-ban-planning-guidance> Wood burners directly linked to air particle pollution, associated with around 29,000 attributable deaths annually in Britain. February 9,

2023.RAWSEPresidents.wordpress.com

PDFs, Youtube

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**Dane County**

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