

August 18, 2022, RAWSEP news paraphrased, Climate Change causes computers to overheat, wood burning appliance certification ignores measurable PM 2.5 pollution in neighbor's yards which infiltrates homes

The U S Midwest and the U S South

Iowa

[Keokuk Fire Department | Daily Gate City | mississippivalleypublishing.com](#)

Mississippi Valley Publishing

The Department responded to a burn complaint at 1214 Morgan on Sunday at 5:24 p.m. On arrival, the owner had some **wood burning** in a barrel.

RAWSEP View: Mary noted that, in Keokuk, Iowa, the Fire Department responded to a burn complaint on Sunday in the late afternoon. On arrival, the owner had some **wood burning** in a barrel.

Michigan

[A parade of tractors | News | grandrapidsmn.com](#)

Grand Rapids Herald-Review

Paul Card, of Warba, operates a 1910 Case steel and iron Steam Engine fueled with a **wood burning** stove, and lets off steam blowing the whistle ...

RAWSEP View: Mary noted that, in Grand Rapids, Michigan, in a parade of tractors, man operated a 1910 Case steel and iron Steam Engine fueled with a **wood burning** stove. Mary thought this was a dangerously polluting way of fueling a vehicle. Mary noted that this tractor was 110 years old and environmentally unsound.

North Carolina

[Could an app help scientists understand wildfire smoke's impact on cognition?](#)

UNC Gillings School of Global Public Health - The University of North Carolina at Chapel Hill

... that adult attention spans are significantly lower in the hours and days after exposure to fine particulate matter (**PM2.5**) and wildfire smoke.

RAWSEP View: Mary noted that a North Carolina study shows that adult attention spans are significantly lower in the hours and days after exposure to fine particulate matter (**PM2.5**) and wildfire smoke.

[The Effect of Household Air Pollution Exposure on Gestational Blood Pressure](#)

Cardiology Advisor

In the study, they measured BP and personal exposure to particulate matter (**PM2.5**), black carbon, and carbon monoxide 3 times during gestation.

RAWSEP View: Mary noted that, in a study, household PM 2.5 was shown to affect gestational blood pressure.

2.The U S Northeast

Massachusetts

[Boston wants to ban fossil fuels in new buildings in bid to slice city's climate impact](#)

MassLive.com

Wood-burning power plants in Mass. won't qualify for renewable energy credits. Local activists are celebrating · Climate scientists predict Boston ...

RAWSEP View: Noel noted that, in Boston, Massachusetts the city authorities want to ban fossil fuels in new buildings in a bid to slice city's climate impact. Also, **wood-burning** power plants in Massachusetts won't qualify for renewable energy credits. Local activists are celebrating.

3.The U.S.West Coast

Arizona

[News Flash • Maricopa County, AZ • CivicEngage](#)

Maricopa County

No Burn Day restrictions last for a 24-hour period, starting at midnight, and include a ban on **wood burning** activities including fireplaces, ...

RAWSEP View: Wendy noted that, in Maricopa County, Arizona, No Burn Day restrictions last for a 24-hour period, starting at midnight, and include a ban on **wood burning** activities including fireplaces.

California

[RV burned in latest fire at **Wood** Street encampment in Oakland - KRON4](#)

KRON4

Crews thought the fire may have extended to a building in the 2500 block of **Wood** Street. Firefighters accessed the roof and found only trapped **smoke**.

RAWSEP View: Wendy noted that, in Oakland, California, an Recreational Vehicle (R V) burned in the latest fire at the Wood Street encampment.

Colorado

[Turns out that outdoor fireplaces are illegal in Denver | News](#)

Denver Westword

According to Familiesforcleanair.org, **wood-smoke** pollution is even more hazardous than secondhand smoke from cigarettes, aggravating asthma and ...

RAWSEP View: Wendy noted that, In Colorado, according to families for clean air dot org, wood smoke pollution is even more hazardous than secondhand smoke from cigarettes, aggravating asthma. An article stated that Turns out that outdoor fireplaces are illegal in Denver.

Idaho

[Two wildfires **burning** southwest of Stanley | News | mtexpress.com](#)

Idaho Mountain Express

Plumes of **smoke** from the Ross Fork Fire could be seen Sunday afternoon from Galena Summit and Alturas Lake. Courtesy U.S. Forest Service/Sawtooth ...

RAWSEP View: Wendy noted that, In Idaho, plumes of smoke from the Ross Fork Fire could be seen In Galena Summit and Alturas Lake.

New Mexico

[Health Alert for Bernalillo County for **Smoke** - City of Albuquerque](#)

City of Albuquerque

The Albuquerque-Bernalillo County Air Quality Program is issuing a Health Alert due to **smoke**. Those with respiratory conditions in the City of ...

RAWSEP View: In Albuquerque-Bernalillo County, New Mexico a Health Alert due to smoke was issued.

4.Canada

Carrie

Carrie writes, In British Columbia, online, about her experience as a neighbor of a wood burner. She posts pictures of the smoke near her, which infiltrates her yard and house. She has written in the last two weeks about the fact that climate change is causing the problem of computer servers overheating. She also wrote "The wood smoke in my profile picture

comes from a C S A and E P A "certified" wood stove. It has a catalytic filter meant to screen Particulate Matter, but it cannot screen lethal toxins in the smoke. The wood stove exchange program promoted by the Government rebate program and British Columbia (B C) lung advocates that those stoves are safe for use and environmentally friendly. Does anyone living with one of these next door really think that stove could be safe for humans and the environment? If they do I suggest they spend a Winter in our hazy valley and see how they feel by Springtime. Climate change changes everything. What would happen if our data centers overheat and burn? All our finances, computers, energy systems are based on data centers. Every time we use our computers we use a data center. We need to take climate change serious right now and stop burning things. So far this year 41% of the wild fires burning have been human caused. The British Columbia Provincial current year total is 544 fires, with 101 started in the last 7 days. And 54 up 4 in the last 2 days. With hot dry conditions which started early the camp fire ban came into effect around the end of July. The need for camp fire bans, debris burning bans and recreational vehicle bans needs to begin earlier in the Springtime. Fires cost everyone in lost homes, human lives, livestock, higher taxes, higher insurance coverage, lost forests. The use of wood burning stoves, fire pits, camp fires, agricultural debris burning, prescribed burns all contributes to higher greenhouse gas emissions which are causing warmer climates and more wild fires. STOP BURNING STUFF NOW!" C S A in Canada is the equivalent of the E P A in the U S. The **CSA Group** (formerly the **Canadian Standards Association; C S A**) is a [standards organization](#) which develops standards in 57 areas. CSA publishes standards in print and electronic form, and provides training and advisory services. CSA is composed of representatives from industry, government, and consumer groups. The CSA registered mark shows that a product has been independently tested and certified to meet recognized standards for safety or performance.

Cameron

Cameron, in Canada, sees, as Carrie has pointed out, that certifying wood burning appliances does not solve the problem of the pollution wood burning generates. The pollution from wood burning can be measured by neighbors of wood burners using PurpleAir monitors which show the level of PM 2.5 which has infiltrated neighbors' yards, and which can infiltrate neighbors' homes. But this type of particulate monitoring is not used by governments in the United States and Canada to regulate and enforce PM 2.5 particulate pollution from wood burning and is not used to shut down polluting and health threatening wood burning from indoor wood-burning appliances.

5.Australia

6.New Zealand

7.The U.K.

[Burning Wood Pellets Does Not Generate Carbon Neutral Electricity - Treehugger](#)

Treehugger

United Kingdom-based Drax Group, the world's largest biomass-**burning** power generator, converted coal-**fired** generating plants to **burn wood** pellets, ...

RAWSEP View: Island believes that Drax Group, the world's largest biomass-burning power generator does NOT generate Carbon Neutral Electricity. She noted an article that stated "Canadian journalist Adria Vasil pointed out in [Corporate Knights](#) that "a study led by Princeton University, published in the journal Science, called out a 'serious' error in the climate accounting rules widely applied to biomass energy since the Kyoto Protocol." The study stated: "This accounting erroneously treats all bioenergy as carbon neutral regardless of the source of the biomass." Apparently, burning wood and calling it carbon neutral doesn't make much sense to anyone. But when the minister in charge of the British Department for Business, Energy, and Industrial Strategy is having second thoughts about it, perhaps change is afoot."

8.Germany in the European Union, and Europe and the Middle East

Koch Foundation front for Fossil Fuel Industry comment on European Union not to continue subsidies for wood burning.

Europe's Energy Crisis Should Not Be Emulated in the United States - IER

The Institute for Energy Research

Hungary instructed schools to look into **wood-burning** to keep warm. ... sixth of peak demand, even after emergency coal plants have been fired up.

RAWSEP View: Gerda noted that the Institute for Energy Research (I E R) is often described as a [front group](#) for the [fossil fuel](#) industry. It was initially formed by [Charles Koch](#), receives donations from many large companies like [Exxon](#), and publishes a stream of reports and position papers opposing any efforts to control [greenhouse gasses](#). Thomas Pyle, president of the I E R and its offshoot **American Energy Alliance** (A E A), was appointed to the [US Department of Energy's](#) transition team after the [2016 United States elections](#). The **Institute for Energy Research (I E R)** is a [Washington, D.C.](#)-based non-profit organization that, according to itself, conducts research and analysis on the functions, operations, and government regulation of global energy markets. IER maintains that the [free market](#) provides the most "efficient and effective solutions" to "global energy and environmental challenges".

Gerda noted that, in an online article, the I E R concludes by saying that Biden administration wants to walk in Europe's footsteps regarding energy and climate policy. The Biden administration joined Europe in committing to the [goal of "net zero" greenhouse gas emissions](#) in the coming decades. But that goal will just make energy prices skyrocket. Gerda thinks that this opinion of the Institute for Energy Research, a Koch-backed American organization, ignores the climate change and pollution effects of wood burning for energy.

European Union (Support for Members of the European Union Parliament)

[Why forest biomass must not be counted as 'renewable' energy - EURACTIV.com](#)

EURACTIV.com

The majority of wood counted toward renewable energy targets is burned for residential heating, though it is **wood-burning** power plants that receive ...

RAWSEP View: Gerda noted that an article was in support of the European Union Parliament voting to no longer consider wood burning "carbon neutral" and was in support for ending subsidies for the wood burning industry in the European Union. The article stated that "(Some) Members of the European Parliament of the European Union have taken a brave and principled stand by calling for an end to forest biomass counting toward renewable energy targets; for the sake of our forests, nature, and a livable climate, the rest of the European Parliament must join them

Norway (need to cool computer servers)

<https://www.nytimes.com/2022/08/18/world/europe/drought-heat-energy.html>

RAWSEP View: Gerda noted that an article, titled, Europe's Scorching Summer Puts Unexpected Strain on Energy Supply, speaks about reduced hydropower in Norway, threatened nuclear reactors in France and crimped coal transport in Germany, caused by the extreme heat from climate change in Europe this summer. And the author emphasizes that those energy supply strains are on top of the energy supply strain of Russian natural gas cuts. Drought caused by the heat reduces water supply for Norway's reservoirs which produce hydropower. France's warmed rivers have threatened France's nuclear reactors. In Germany, the Rhine is too low, and strands transport of coal. Wildfires have left thousands in England stranded without electricity. Gerda noted Norway's need to cool computer servers, overheated by climate change. A Norwegian industrial developer was building a data center for clients such as Amazon, which would suck up a significant share of locally produced electricity in order to cool vast computer servers. This year's drought caused by climate change has only highlighted the urgent need for a wider energy transformation, the Norwegian developer said, "The drought shows that we are not ready for the big changes," he said, but also "that we will not accept the high prices."

The Middle East

[Panasonic's new Nanoe X Technology Air Conditioner makes breathing nature indoor possible](#)

Al Bawaba

... breaking down **PM 2.5** components that have adverse effects on the human body," Mr. Dipendu Goon, General Manager - Air Conditioner and Audio ...

RAWSEP View: Gerda noted that, in the Middle East, air conditioners are in demand.

9.Nigeria in Africa

10.India in Asia

India

[What is **Particulate Matter 2.5 \(PM 2.5\)**? Cite its outdoor and indoor sources. Examine the impact ...](#)

INSIGHTS IAS

Examine the impact of **PM 2.5** on human health and suggest steps to lower its levels in the air. Topic: Conservation, environmental pollution and ...

RAWSEP View: Ishan noted that **PM 2.5 fine particles, outside, primarily come from automobile exhausts, burning of fuels such as wood, and operating fireplaces and fuel-burning space heaters.** Using a nationwide network of monitoring sites, E P A in the U S has developed ambient air quality trends for particle pollution, also called Particulate Matter (PM). PM 2.5 describes fine inhalable particles, with diameters that are generally 2.5 micrometers and smaller.

[Delhi's PM2.5 levels worst in the world - The Hindu](#)

The Hindu

A global analysis of air quality found that Indian cities, while recording **particulate matter** emissions (PM2.5) that are among the highest in the ...

[India home to 18 of 20 cities with most severe increase in **PM 2.5** pollution: Study](#)

The Hindu

The report published Health Effects Institute (HEI) shows that Delhi has the highest average level of fine **PM 2.5** among the world's most populated ...

[18 Indian cities among 20 globally with most severely spiked **PM 2.5** levels - Times Now](#)

Times Now

New Delhi : According to a recent study, 18 of the 20 cities with the most increases in fine particulate matter pollution (**PM 2.5**) between 2010 ...

[Delhi and Kolkata most polluted cities in the world in terms of **PM 2.5** exposure: Report](#)

WION

Beijing had the largest disease burden associated with a **PM 2.5**-related illness, with 124 attributable fatalities per 100,000 persons. Kolkata ranked ...

[Air pollution: India is home to 18 of 20 cities with most severe increase in **PM 2.5** pollution ...](#)

DNA India

The new report also shows that Delhi has the highest average level of fine **PM 2.5** among the world's most populated cities. It was published by the US- ...

['India home to 18 cities with severe increase in **PM 2.5** pollution' - dtnext](#)

dtnext

'India home to 18 cities with severe increase in **PM 2.5** pollution'. The report published by the US-based research organisation Health Effects ...

[India home to 18 of 20 cities with most severe rise in pollution levels - Mint](#)

Mint

Delhi has the highest average level of fine **PM 2.5** among the world's most ... fine particulate matter (PM2.5) and nitrogen dioxide (NO2) and the ...

[Delhi, Kolkata Are the World's Most Polluted Cities by **PM 2.5** Exposure: Study - The Quint](#)

The Quint

Delhi, Kolkata Are World's Most Polluted Cities by **PM 2.5** Exposure: Study ... fine particulate matter (PM2.5) and nitrogen dioxide (NO2).

[Delhi, Kolkata first, second globally in PM2.5 pollution: Report - DownToEarth](#)

DownToEarth

Delhi and Kolkata have the highest and second-highest levels of pollution globally in terms of Particulate Matter (PM) 2.5, according to a new ...

RAWSEP View: A global analysis of air quality found that Indian cities, while recording particulate matter emissions (PM2.5) that are among the highest in the ... The report published Health Effects Institute (HEI) shows that Delhi has the highest average level of fine PM 2.5 among the world's most populated ... New Delhi : According to a recent study, 18 of the 20 cities with the most increases in fine particulate matter pollution (PM 2.5) between 2010 ... Beijing had the largest disease burden associated with a PM 2.5-related illness, with 124 attributable fatalities per 100,000 persons. Kolkata ranked ... Beijing had the largest disease burden associated with a PM 2.5-related illness, with 124 attributable fatalities per 100,000 persons. Kolkata ranked ... The new report also shows that Delhi has the highest average level of fine PM 2.5 among the world's most populated cities. It was published by the US- ... 'India home to 18 cities with severe increase in PM 2.5 pollution'. The report published by the US-based research organisation Health Effects ... Delhi has the highest average level of fine PM 2.5 among the world's most ... fine particulate matter (PM2.5) and nitrogen dioxide (NO2) and the ... Delhi, Kolkata Are World's Most Polluted Cities by PM 2.5 Exposure: Study ... fine particulate matter (PM2.5) and nitrogen dioxide (NO2).

RAWSEP View: Ishan noted that at least nine of India's newspapers had stories on the global analysis of air quality that found that Indian cities were among the highest cities in the world for PM 2.5 particulate pollution. The report published by the U S based Health Effects Institute (H E I) sows that Delhi has the highest average level of fine PM 2.5 among the world's most populated cities. Delhi and Kolkata are the most PM 2.5 polluted cities in the world. India was the home to 18 cities with severe increase in PM 2.5 pollution. Beijing, China had the largest disease burden associated with PM 2.5 related illness, with 124 attributable fatalities per 100,000 persons.

Tibet

<https://www.nature.com/articles/s41558-022-01443-0?fs=e&s=cl&fbclid=IwAR1esl-jHLs-AeavL8AnYCjUjz-LIPsWnEUtwvkeOp2MAAvLq25iE-XTs>

RAWSEP View: Ishan noted that, in the article, Climate change threatens terrestrial water storage over the Tibetan Plateau, without enough water storage wildfires are less likely to be contained, and cooling of technology such as computer networks which link the Tibetan Plateau to the world will become less efficient.

10.5 Research Papers and Technology

11.The Future