

August 14, 2022, RAWSEP news paraphrased

The U.S. Midwest

2.The U.S. Northeast

Maine

[Fire departments urge burn caution during drought - WABI](#)

WABI

"Now we're in a moderate level of **burning**," said Orrington Fire ... There's very little stuff that you can **burn** now; even a lot of **wood** that has ...

RAWSEP View: With Maine in drought conditions, local fire departments are urging caution when burning wood. The Orrington Fire Department responded to three fires Friday, including what they say was an illegal burn at an Orrington residence. The fire department found a cellar of a torn-down house filled with illegal items to burn, including asbestos and other insulation, siding, shingles, and wood coated in material. They say the person who started the fire did not have a burn permit. The illegal burn is under investigation by the Maine Forest Service. A fire department representative said, "There's very little stuff that you can burn now; even a lot of wood that has any type of material on it, you're not allowed to burn."

Washington, D.C.

[A huge side benefit of the new climate bill - The New York Times](#)

The New York Times

The burning of fossil fuels emits dangerous air pollutants like fine particulate matter, known as **PM 2.5**, that can penetrate deep into our lungs ...

<https://www.nytimes.com/2022/08/12/climate/climate-air-pollution-health.html?searchResultPosition=1>

RAWSEP View: This article states that the huge side effect of the Climate Bill is that it also tackles air pollution. Excerpt from article: "Air pollution sickens and kills millions every year. Here's how the new measure will help tackle the problem." Fewer premature deaths, Greater equality, Building global momentum. "Outdoor air pollution, specifically PM 2.5 pollution, decreases the average life span of a human on the planet more than road injuries, H.I.V.-AIDS, malaria and war combined," an expert said." Black Americans are exposed to higher concentrations of PM 2.5 from all sources. Communities sometimes fall through the cracks of air quality monitoring networks in the United States. More granular data could make a huge difference, said an expert, who leads air quality programs at the Energy Policy Institute at the University of Chicago. A city may have several air quality monitors spread out that are reporting an average level of pollution that isn't harmful, but the system could still miss the few blocks where levels are extremely high. The climate and tax law provides [\\$281 million to state agencies to improve air quality monitoring](#), and there are other measures to promote environmental justice." It will invest billions in community-led projects.

<https://www.nytimes.com/2022/08/12/opinion/environment/climate-bill-house-inflation-reduction.html>

RAWSEP Residents: The Inflation Reduction Bill details about the High Efficiency Electric Home Rebate was found in this article excerpt for HEAT PUMPS, ELECTRIC WIRING, SEALING GAPS AND INSULATING, INDUCTION STOVE, SOLAR PANELS, BATTERIES AS BACKUP AND ELECTRIC VEHICLE: "The bill's High-Efficiency Electric Home Rebate Program [offers up to \\$8,000](#) to install heat pumps that both cool and heat homes, replacing air-conditioners and, typically, gas furnaces. If the current water heater runs on gas, the program supports going all in with a heat pump (a \$1,750 rebate). Fully electrifying one's home also often means improving electric wiring (another \$2,500 rebate), and the full benefits of home electrification only come with sealing gaps and insulating (\$1,600). Switch from a gas range to an [induction stove](#) and get up to \$840 back. Add solar panels on the roof ([a 30 percent tax credit](#)), batteries as backup (30 percent) and an electric vehicle in the garage (up to \$7,500 per new car and \$4,000 per used car), and home electrification is complete. Faster permitting processes have been a priority for industry and for the rapidly growing progressive YIMBY — "yes, in my backyard" — movement. The name of the game is to actually build the clean energy future we want. That means [focusing on supply](#) as much as demand

3.The U.S. West Coast

4.Canada

5.Australia

6.New Zealand

[A huge side benefit of the new climate bill | Global Online Money](#)

Global Online Money

The burning of fossil fuels emits harmful air pollution like advantageous particulate matter, generally known as **PM 2.5**, that may penetrate deep ...

<https://www.nytimes.com/2022/08/11/business/new-zealand-carbon-farming.html>

RAWSEP View: Carbon intensive industries? What industries are these? An owner of New Zealand farmland, who bought it in 2013 for 1.8 million New Zealand dollars, sold it this year for 13 million, or \$8.2 million U.S. Dollars. In New Zealand investors cover the property in trees, making money not from their timber, but from the carbon the trees will suck from the atmosphere. So-called carbon farming is part of New Zealand's drive to be [carbon neutral](#) by 2050. Under a market-based [emissions trading program](#), companies in carbon-intensive industries must buy credits to offset their emissions. Many of those credits are purchased from forest owners, and as the credits' price has soared, forestry investors have sought to cash in by buying up ranches.

The following countries have a price on carbon (as of 2019) Canada, Mexico, Columbia, Argentina, Chile, Iceland, Norway, Europe including Ukraine, Kazakhstan, Singapore, South Korea, Japan, Australia, New Zealand. And in 2019 China and South Africa had scheduled prices on Carbon in the future. These states in the U.S. had a local price on Carbon (as of 2019): Massachusetts, New York State and seven other states.

7.The U.K.

8.Germany in the European Union, and Europe

Europe

<https://www.nytimes.com/2022/08/04/travel/heat-wave-europe.html>

Gerda read about the heat wave in Europe affecting travel from abroad. In an excerpt from the article “: In Britain, the 10 hottest years in the record books (which go back to 1884) [have all occurred](#) in this century. In Germany, the average annual number of “hot days” (those with temperatures reaching 30 degrees Celsius — 86 degrees Fahrenheit — or higher) has trended [significantly higher](#) since the 1950s. And in France, scientists have calculated that average temperatures in the northeastern city of Strasbourg are now [roughly equivalent](#) to those seen in Lyon, which lies about 240 miles to the south-southwest, in the 1970s.” An expert who leads climate adaptation work at the [World Resources Institute](#), a think tank based in Washington, D.C. pointed out that planes aren't certified to fly above certain temperatures, a limit that [has already grounded](#) flights in the past. Travel to Europe is recommended during the “shoulder season,” which is now often defined as April and October — no longer May and September.

France

[Carbon Emissions From French Wildfires Hit Record - NDTV.com](#)

NDTV.com

WorldReuters Updated: August 12, 2022, 6:54 pm IST ... In addition to carbon, wildfires release pollutants like Particulate Matter 2.5. London:

RAWSEP View: In France, smoke from wildfires negatively impacted the productivity of solar panels. In addition to carbon, wildfires release pollutants like Particulate Matter 2.5. Carbon emissions from French wildfires, in the southwestern Gironde region, hit a record, nearly 1 million metric tons of carbon June to August, shown by European Union's Copernicus Atmospheric Monitoring Service (CAMS)'s new satellite data, roughly equal to 790,000 cars' yearly CO2 emissions. Spain had record wildfire emissions mid-July. Portugal wildfires had lower emissions than previous years.

Smoky conditions can reduce solar energy output, by nearly half <https://www.solaranalytics.com.au/community-news/how-much-does-smoke-haze-affect-rooftop-solar-production> France's Gironde region 40,000-strong solar panel installation <https://www.power-technology.com/marketdata/merle-sud-solar-pv-park-france> that provides power to 13,000 people.

9.Nigeria in Africa

Zimbabwe

[Zimbabwe: Saving time while saving the environment | The Chronicle](#)

The Chronicle

Indoor pollution from open fires exposes women and children to **smoke** and ... As an alternative to cutting down trees and **burning** polluting **wood**, ...

RAWSEP View: In Zimbabwe, indoor pollution from open wood fires exposes women and children to smoke and soot leading to respiratory diseases, and deforestation in Zimbabwe continues to spread at a high rate due to the over reliance on firewood in the rural areas. The time-consuming responsibility of fetching firewood is assigned to girls leaving them vulnerable to abuse and at a disadvantage when it comes to studying as they have less time. For a 61-year-old woman who lives with her family of nine in Neshuro Village, Mwenezi District, wood has been their lifeblood for several generations. "For several years, firewood has been the source of energy we could afford because of its convenience and easy access," she said. Climate change-induced drought has been traced in the southern parts of Zimbabwe like Mwenezi where people rely on wood for both cooking and selling to earn an income. An alternative to cutting down trees and burning polluting wood is CARE International in Zimbabwe, Plan International, and ICRISAT working with the community in Neshuro, through the Zimbabwe Resilience Building Fund- Enhancing Community Resilience and Sustainability (ECRAS) project, establishing an alternative and reusable source of energy, a biodigester. The biodigester is a fixed dome with an airtight underground tank in which organic materials mixed with water are digested with water through anaerobic bacterial action to generate biogas fuel. The main source of feed for the fixed dome biodigesters is cow dung. CARE believes investments in biogas technology in remote areas can reduce pollution and save millions of lives.

10.India in Asia

China

[Jiangsu combines green awareness, growth - Chinadaily.com.cn](#)

China Daily

According to the Jiangsu Development and Reform Commission, the average density of **PM 2.5** particulate matter in the province decreased by 54.8 ...

RAWSEP View: China reported that Jiangsu Province's PM 2.5 level decreased.

10.5 Research Papers and Technology

11.The Future