

July 28, 2022, RAWSEP news paraphrased

1. The U.S. Midwest & the U.S. South

2. The U.S. Northeast

Washington, DC

Manchin, in Reversal, Agrees to Quick Action on Climate and Tax Plan - The New York Times (nytimes.com)

RAWSEP View: This article does not mention Biomass Burning. Solar and Wind only supply a fraction of U.S. energy now. Hopefully this climate bill will focus on making Wind and Solar the dominant forms of energy in the U.S. soon. Evergreen Action, the Environmental Group quoted in this article, has three main goals: 1. Clean Truck regulations. 2. Clean School Bus program, 3. New Power Lines. Joe Manchin announced he agreed to include **hundreds of billions of dollars for climate and energy programs** and tax increases in a package to subsidize health care and lower the cost of prescription drugs. The package would **set aside \$369 billion for climate and energy proposals, the most ambitious climate action ever taken by Congress**, and raise an estimated \$451 billion in new tax revenue over a decade, while cutting federal spending on prescription drugs by \$288 billion, according to a summary circulated Wednesday evening. It would reduce the federal deficit by \$300 billion, and push down health care, prescription medicine and electricity costs. The bill is an attack on inflation running at a 40-year high. The Senate is divided 50 to 50 and Republicans are uniformly opposed. The tax increases would fall on corporations and private equity firms. A commitment from both **Mr. Biden** and **Speaker Nancy Pelosi of California that Congress would approve a separate measure to address the permitting of energy infrastructure**, potentially including **natural gas pipelines**, before the end of the fiscal year on Sept. 30. A project in which Mr. Manchin has taken a personal interest, is the Mountain Valley Pipeline, which would transport Appalachian **shale gas** from West Virginia to Virginia. Reconciliation which allows a simple majority for passage. A leader of Evergreen Action, an environmental group said. "This has the opportunity to be an enormous breakthrough for climate progress." Manchin said it does not remove "fossil fuel energy **before new technologies are ready to reliably carry the load,**" Manchin has personal financial ties to the coal industry, and has received more campaign contributions from the fossil fuel industry than any other U.S. Senator.

3. The U.S. West Coast & South America & Caribbean

The Caribbean, Bahamas

<https://www.cbsnews.com/news/bahamas-hurricanes-power-grid-solar-60-minutes-2022-07-24/> Storm-ravaged

Bahamas rebuilding its power grid with emphasis on solar energy

RAWSEP View: CBS 60 minutes video segment on Bahamas using solar panels securely fastened close to the ground, at a high elevation, to withstand hurricanes. Other energy sources failed Bahamas during last hurricane.

Chile, Santiago

Tres Marias: air quality this July 27, 2022 - California18

California18

... of particulate matter (PM) 2.5. Given this scenario, we leave you below the status of air quality on July 27, 2022 in Three Marias:.

RAWSEP View: Three Marias near Santiago, Chile. Heating: Prohibition of the use of wood heaters (except pellets) in the province of Santiago and the districts of San Bernardo and Puente Alto.

Control of visible smoke to heaters.

California

Will a COVID mask protect you from wildfire smoke? | FOX 5 San Diego

FOX 5 San Diego

The contaminants in wildfire smoke, especially the smaller PM 2.5 particles that penetrate deeply into the lungs, may impair the body's natural ...

RAWSEP View: In Los Angeles, California, the question is asked, will a COVID 19 mask protect you against the PM 2.5 in wildfire smoke?

[A hellish combination of topography, weather, and fuel stir the Oak Fire - Popular Science](#)

Popular Science

Mariposa County, hardest hit by the fire, hasn't burned in a century. Thousands of residents have been evacuated.

RAWSEP View: Mariposa County, California, hasn't burned in a century, and now the fire is still burning.

Oregon

[Health Department issues mandatory wood burning restriction due to air pollution](#)

Multnomah County |

Forecasts call for ground-level ozone and high pollution, Multnomah County ordinance echoes County Fire Board's burn ban, requires people refrain ...

RAWSEP View: Hot temperatures and air pollution across the Portland Metro area are leading health officials today, July 27, 2022, to issue a mandatory wood burning restriction for residents in Multnomah County.

Wyoming

[Campers, Be Aware! Fire Restrictions Implemented in Medicine Bow - Laramie Live](#)

Laramie Live

Dry conditions have led to fires burning throughout the summer in ... with amenities like a king bed, leather couches, and a wood-burning stove.

RAWSEP View: Wyoming fire restrictions are still in place.

4.Canada

5.Australia

6.New Zealand

7.U.K. & Ireland

U.K., England, Leicester

[Air quality can be better for active commuters than drivers, research shows | News](#)

University of Leicester

However, the concentration of fine particulate matter (PM2.5) was shown to be slightly lower for drivers. Researchers studied four typical routes used ...

RAWSEP View: Air quality can be better for active commuters than drivers, research shows. Summary: New research has found that people who commute by car can be subject to higher levels of harmful gases than those who walk or cycle to work.

U.K., England, London

Leonie Cooper: Clean air is an issue for all Londoners, so let's all have our say - OnLondon

OnLondon

... to tackle three particular toxins: nitrogen dioxide (NO₂) nitrogen oxides (NO_x) and microscopic particulate matter (PM_{2.5}).

RAWSEP View: PM 2.5 is an issue for all Londoners. Excerpt from article by Leonie Cooper "Ultra Low Emission Zone (ULEZ) began in London in 2017. The ULEZ was introduced, initially only in central London, to tackle three particular

toxins: nitrogen dioxide (NO₂) nitrogen oxides (NO_x) and microscopic particulate matter (PM.2.5). Back then it was estimated that 10,000 people died prematurely each year as a result of London's toxic air. With the ULEZ now expanded to just inside the North and South Circular roads, we've made great progress in inner London, but in outer London illegal levels of pollution are still being recorded. A ULEZ expanded to cover the whole of the capital will protect all Londoners." Leonie Cooper is a Labour London Assembly Member and represents the Merton & Wandsworth constituency

Levels of dangerous air pollution surged as London fires raged | The Independent

The Independent

... a peak of nearly 100 micrograms per cubic metre (µg/m³) of tiny particulate matter smaller than 2.5 microns in size (PM 2.5) at 3 pm that day.

RAWSEP View: PM 2.5 was or is at 100 mg/meter cubed because of fires. Dangerous air pollution surged in the wake of fires in the greater London area during the heatwave last week, soaring well above United Nations recommended limits and potentially putting hundreds of thousands of people suffering from asthma at risk.

U.K., England

Burning forests to generate power is alarming, says Sir David Attenborough

Energy Live News

Wood-burning Drax power station near Selby, North Yorkshire generates nearly 6% of the UK's total electricity supply. Share on LinkedIn. LinkedIn.

RAWSEP View: Another news outlet covers the news that Sir David Attenborough, famous documentary filmmaker, sees that biomass burning is not renewable energy.

Drax profits, dividends climb during power crisis - Investors' Chronicle

Investors Chronicle

The wood-burning company has upped its payout and issued a profit upgrade after the government asked it to keep two coal units ready for winter.

RAWSEP View: The biomass (wood) burning company, DRAX in U.K., has seen its dividends climb during the power crisis.

8. Germany in the European Union, & Europe & Mideast

Germany

Germany: Stockpiling wood in fear of gas shortage | Business - DW

DW

Wood burning poses serious health risk. Because burning wood emits so much particulate matter, the Federal Environment Agency says biomass should no ...

Germany: Stockpiling wood in fear of gas shortage | NRS-Import | DW | 26.07.2022

DW

In search for alternatives to heating with gas, Germans are increasingly turning to wood. Wood-burning stoves are subsidized by the government, .

RAWSEP View: The write of this article doesn't pay attention to the fact that the German government is going to import Liquid Natural Gas (L.N.G.) to compensate for the shortage of natural gas from Russia.

9. Nigeria in Africa

10. India in Asia & Pacific Islands

India

Volvo C40 Recharge coupe electric SUV coming to India in 2023 with 430 km range

Times of India

... wireless phone charging, a panoramic sunroof, and a 12-speaker Harman Kardon sound system, 360-degree camera and PM 2.5 air filter.

RAWSEP View: In India, there is a market for electric cars.

Thailand, Bangkok

Bangkok City Hall lays out 16 operations to combat PM2.5 - Pattaya Mail

Pattaya Mail

... dust issue and it will handle 16 operations plans, the first of which calls for the cause of the PM.2.5 issue to be precisely determined.

RAWSEP View: The PM 2.5 issue in Bangkok, Thailand is dust.

10.5 Technology & Research Papers

11.The Future

In future these topics will be covered

Hyper-Localized PM 2.5 Monitors or Sensors

Naming and Rating the Hyper-Localized PM 2.5 Sensors

Are they being used to help stop residential wood burners?

Why are some PM 2.5 sensors driven around in electric vehicles?

Are they being used widely in a municipality to detect residential wood burning?

Are they being used widely nationwide to detect residential wood burning?

Are they being used widely in a municipality to detect primarily wildfire smoke?

Are they being used widely nationwide to detect primarily wildfire smoke?

Are they being used in the United Kingdom?

Are they being used in Europe?

Are they being used in Asia?

Are they being used Australia?

Are they being used in New Zealand?

Are they being used in Canada?

Are they being used in the United States?