

July 27, 2022, RAWSEP news paraphrased

Dedicated to Confucius.

Confucius had to grapple with the issue of good governance and its role. His answer was the concept of benevolence. Confucius believed that both the governed and the government should have the same type of morals and or ethics. No special class was born to lead. The government comes from the people. The regimented Greek categories of rulers and the ruled are not present in Confucianism. Benevolence is not only the moral relationship of the family, but also the political relationships among society. Benevolence emphasized that in any social structure people should love others from the bottom of their hearts instead of relying on external force, as in a military dictatorship. The individual ethical value of goodness creates a commonwealth that produces collective good. As a result, there is benevolence on the part of both the governed and the government. The foundation of Confucianism is that a good and benevolent society fosters mutual trust between the individual and government.

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

2.The U.S. Northeast

NYSEG working to restore power to hundreds in Otsego County following Sunday storms

WKTV

... stops in Utica to campaign for son in race for governor. Updated Jun 20, 2022. Addressing misconceptions about a **wood burning** ban in NY.

RAWSEP View: Misconceptions about a wood burning ban in New York State were addressed.

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

California

Oak Fire expected to push **smoke** to Northern Nevada | Serving Carson City for over 150 years

Nevada Appeal

Avoid activities that create more fine particl

Oak Fire in Mariposa: Blaze at 18,000 acres, 26% containment - San Francisco Chronicle

San Francisco Chronicle

... a **wood-burning** stove and a propane tank in what had been a corner of ... smoke “expected to remain aloft,” though hazy skies might be visible.

RAWSEP View: In California, the Oak Fire is expected to push smoke to Northern Nevada. Later, it was reported as 26% contained.

Fire **Burning** At **Wood** Products Factory In Sutter Creek - Good Day Sacramento

Good Day Sacramento

There are multiple firefighting units at Ampine Timber Products Company. There were no nearby evacuations ordered, according to the Tuolumne County ...

Firefighter Injured As Crews Battle Blaze At **Wood** Products Factory In Sutter Creek

CBS-Sacramento

Though the fire was still **burning** into the evening hours, officials said all of the vegetation spot fires were contained.

An Incredible Loss To The People Of Amador': Fire Destroys **Wood** Products Factory Near ...

CBS-Sacramento

“You probably saw the big plume of **smoke** billowing. It was raining hot ash and embers,” said Amador Fire Protection District Chief Walt White.

RAWSEP View: A wood products factory is burning in Sutter Creek, California.

Colorado

Burn restrictions in Colorado Springs will be lifted - KOAA

KOAA

The Colorado Springs Fire Department announced **burn** restrictions in the city ... When using outdoor BBQ grills that are fueled by **wood**, pellets, ...

RAWSEP View: Burning restrictions will be lifted in Colorado Springs, Colorado.

4.Canada

5.Australia

6.New Zealand

7.U.K. & Ireland

Sir David Attenborough versus wood burning power stations

Sir David Attenborough, 96, warns against 'alarming' destruction of forests for power stations

Daily Mail

Sir David Attenborough warned about the 'alarming' practice of razing forests to fuel **wood-burning** power stations in a letter seen exclusively by ...

<https://www.express.co.uk/news/uk/1645887/sir-david-attenborough-forests-wood-burning-power-stations-latest-news-ont>

SIR DAVID ATTENBOROUGH has warned against destroying forests to fuel wood-burning power stations and slammed the practice as "alarming", a report has claimed.

RAWSEP View: This article discusses the CO2 emitted by a wood burning power plant, but does not discuss the air pollution particulates emitted in the form of PM 2.5 by wood burning. Sir David Attenborough of the U.K., whose nature documentaries are justly famous, is reported to have responded to an anti-biomass campaigner by warning against destroying forests to fuel wood-burning power stations. Britain's leading naturalist Sir David Attenborough, 96, reportedly warned against the practice in a letter. A hand-written letter was sent by Sir David to an anti-biomass campaigner. It is reported that Sir David said the practice was "alarming". And it is reported that Attenborough added: "I shall do my best to become better informed on the issue and I am grateful for you telling me about it." The news comes as it was announced a fossil of the first animal predator had been named after Sir David by the geologists who made the discovery. Approximately six percent of Britain's total power comes from Drax, which is a wood-burning power station. The power station, which is based in Yorkshire, goes through around seven million tonnes of biomass pellets per year. It also emits around 13million tonnes of carbon dioxide. Despite being the UK's biggest emitter of CO2, Drax receives more than £800million in taxpayer subsidies by claiming to be a green energy source. The power station has insisted burning wood is "renewable" as trees grow back. However, critics suggest it is misleading to suggest wood is a renewable energy source, as a mature tree could take a century to grow. The U.K. Commons Environmental Audit Committee has announced it will investigate whether burning biomass is fueling deforestation.

U.K., England, Berkshires, Burghfield

Burghfield fire in industrial barn near Reading sees **smoke** plume billow over M4

Berkshire Live

Royal Berkshire Fire and Rescue Service crews from Caversham Road, Wokingham Road, Newbury, Hungerford, Mortimer, Ascot, Whitley **Wood**, ...

RAWSEP View: There is a fire in an industrial barn in the U.K.

UK 'at risk' of missing legal air pollution targets - ENDS Report

ENDS Report

Houses in front of Port Talbot steelworks which ha

RAWSEP View: Cannot sign into report.

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

European Union

<https://www.nytimes.com/live/2022/07/26/world/ukraine-russia-war#eu-russia-ukraine-gas-deal>

[E.U. agrees to reduce natural gas consumption by 15 percent.](#)

Video

1:30E.U. Agrees to Curb Natural Gas Consumption

European Union energy ministers agreed on a deal that encourages members of the bloc to voluntarily cut their natural gas consumption by 15 percent in order to manage their dependence on Russian energy. CreditCredit...Virginia Mayo/Associated Press

RAWSEP View: In Brussels, Belgium the European Union energy ministers hammered out a deal to curb their natural gas consumption. The agreement provides exemptions to nations that face particular energy problems or have been diligent in saving more gas than they needed in recent months. But it still calls on all nations to voluntarily cut their natural gas consumption by 15 percent between now and spring. Nations in the bloc will have to agree there's a broader emergency to make the measures mandatory. The agreement came less than 24 hours after Russia's state-owned gas monopoly, Gazprom, said that it would further reduce the amount of natural gas it sends to Germany through the Nord Stream 1 pipeline

Germany

Germany turns to Liquefied Natural Gas (L.N.G.) now that the Natural Gas pipeline from Russia is curtailed

<https://www.nytimes.com/2022/07/27/world/europe/germany-lng-energy-gas.html>

RAWSEP View: In Wilhelmshaven, when German company Uniper wanted to bring liquefied natural gas (L.N.G.) to Germany through the North Sea port 3 years ago, the proposal hit a brick wall. Residents had denounced the scheme as a threat to a local apple orchard. "Apple juice, not L.N.G.," protesters had said. The company, Uniper, shelved its plans. Now, steel pipes are being rammed into the sea floor to prepare for the arrival of a nearly 1,000 foot long L.N.G. processing vessel. Nearby, construction crews in bulldozers are digging along the perimeter of a forest to clear the way for a new 20-mile pipeline to connect to Germany's gas grid. L.N.G. is the most readily available fuel to make up for the shortfall of natural gas. Long considered an overpriced alternative to reliable natural gas flows via pipeline from Siberia, L.N.G. almost overnight has become the answer to Germany's overreliance on a single supplier, and a hope of staying warm over the winter. The company Uniper's chief operating officer for asset management said all his company had to do was pull the L.N.G. plans out of the drawer. Energy ministers from the European Union agreed on Tuesday to call on all 27 member nations to voluntarily cut their natural gas consumption by 15 percent until spring. Germany is targeting even deeper cuts, and at the same time has set aside 2.5 billion euros (\$2.55 billion) to rent four L.N.G. processing vessels. Berlin is rushing ahead with Uniper, a company that Berlin just agreed to bail out because of its struggles amid the energy crisis caused by the Ukraine war. Germany resisted building L.N.G. facilities for decades, arguing that chilled natural gas arriving by ship was too expensive. Germany has decided it needs its own fleet of floating terminals. These installations are essentially ships with apparatus to take the chilled liquefied gas from seagoing tankers, warm it back into a vapor and move it onshore.

Germany

<https://www.nytimes.com/2016/01/30/world/europe/german-forest-ranger-finds-that-trees-have-social-networks-too.html>

https://www.focus.de/perspektiven/peter-wohlleben-ueber-hitzewellen-und-waelder-waldpapst-alarmiert-diese-hitze-ist-nicht-normal-sie-hat-mit-unserem-wald-zu-tun_id_119952852.html?fbclid=IwAR2BUZW8GsxvYDOUs2kBdViPe8-lxYsrdIUEk1OGuLanZkO9H-jga_03OVM

RAWSEP View: July 2022 Interview with German forest expert Peter Wohlleben who said "Of course, we know that we also need wood products and that's fine, but wood heating should not still be promoted as environmentally friendly. Science strongly advises against burning wood because it is just as harmful to the environment as burning coal and oil - and that only in terms of CO2. In addition, there is the water and cooling effect, which disappears with the deforested forests." In 2016 his "The Secret Life of Trees" was published. In an interview in the forest in 2016 he said "These trees are friends," "You see how the thick branches point away from each other? That's so they don't block their buddy's light." Wohlleben showed, like people, trees wrinkle as they age, and he added, "Sometimes, pairs like this are so interconnected at the roots that when one tree dies, the other one dies, too."

Slovenia

[Wood heating pollutes the air in mountain areas more than previously assumed - Phys.org](#)

Phys.org

To study the impact of **wood burning** on the air quality in such villages, the researchers took a closer look at a karst hollow in Slovenia.

[Wood heating pollutes the air in mountain areas more than previously assumed - Phys.org](#)

Phys.org

According to the European Environment Agency (EEA), wood combustion is now the ... To study the impact of **wood burning** on the air quality in such ...

[Wood heating pollutes the air in mountain areas more than previously assumed - EurekAlert!](#)

EurekAlert!

Study in Slovenian part of the Dinaric Alps sheds detailed light on fine dust distribution in a relief depression with a lot of **wood burning** in ...

RAWSEP View: Around 30 million people in Europe live in mountain valleys. A large part of this population is more affected by air pollution than previously assumed. Wood combustion is responsible for more than half of the small particulate matter (PM2.5) in Europe, which is dangerous to health. According to the European Environment Agency (EEA), wood combustion is now the largest source of this pollutant. The promotion of wood as a "carbon dioxide-neutral" fuel, the rising costs of fossil fuels and several financial crises have led to significantly increasing use of wood as an alternative source. People are more likely to burn wood for household heating in small heating systems. Air quality studies have so far mostly focused on cities. However, in the EU, the UK and the four EFTA countries Iceland, Liechtenstein, Norway and Switzerland, over a quarter of the population live in rural areas. To study the impact of wood burning on the air quality in such villages, the researchers took a closer look at a karst hollow in Slovenia. In the view of the Slovenian-German research team, the results of this study highlight the importance of high-resolution measurements of air quality also in rural areas to monitor and aim to reduce the residential wood-burning pollution. 1. to study pilot sites at smaller spatial scales to take effective action at the local level; 2. raising public awareness of the problem of air pollution from wood burning, including knowledge of the negative effects on health. 3. informing residents when weather conditions cause pollutants to concentrate in the valley and burning wood is not recommended; 4. identifying local major polluters as they may be the main cause of deterioration of local air quality; 5. to encourage retrofitting of existing stoves, centralizing combustion in district heating systems, improving energy retrofitting of buildings, and changing fuel.

9. Nigeria in Africa

10. India in Asia & Pacific Islands

<https://www.hindustantimes.com/cities/delhi-news/go-to-delhi-high-court-supreme-court-tells-man-who-wants-audit-of-advert-budget-101658773158681.html>

["AAP spent over 293 crore on self promotion & adverts instead of focussing on curbing ... - LawBeat](#)

LawBeat

The plea had alleged that the reports suggest that **PM 2.5** air pollution has claimed approximately 45,000 lives in the Delhi NCR region since ...

RAWSEP View: A lawsuit is continuing against the Indian government for not controlling pollution.

[Pm2.5 Exposure Exceeds Safety Limit In Kol, 6 Other Places In State | Kolkata News](#)

Times of India

The health effects of an air-pollution study revealed that average **PM 2.5** exposure over 20 years remained above the Central Pollution Control ...

RAWSEP View: PM 2.5 pollution has been high for 20 years in Kolkata, India.

Punjab, Delhi plan cash incentive for farmers in border state to stop stubble burning

ThePrint

Last year, the share of farm fires in Delhi's **PM 2.5** pollution had peaked to 48 per cent on November 7. According to an analysis by the Delhi ...

RAWSEP View: Cash incentives to farmers for not burning stubble and not producing PM 2.5 are planned in parts of India.

10.5 Technology & Research Papers

Federal climate policy is still possible—if Biden takes action - Popular Science

Popular Science

Sustainability. conversation-loading. Like science, tech, and DIY projects? Sign up to receive Popular Science's emails and get the highlights.

RAWSEP View: Senate Democrats have been trying to negotiate a reconciliation bill for months that would include funding for climate provisions, such as increasing the supply of solar panels and utility-scale batteries, building electric vehicle charging stations, investing in offshore wind power and more. However, passing such a bill requires all 50 Democrats in the Senate to vote in favor of it. It's recently become clear Sen. Joe Manchin (D-W.V.) is not willing to vote for a bill that includes these climate provisions.

Unraveling the interconnections between air pollutants and climate change - My Droll

My Droll

The smaller the size of an aerosol, the more severe its health impacts. Particulate matter with a diameter of less than 2.5 microns (**PM2.5**) can easily ...

Unraveling the interconnections between air pollutants and climate change - Phys.org

Phys.org

Particulate matter with a diameter of less than 2.5 microns (**PM2.5**) can easily infiltrate the lungs. **PM2.5** has been associated with higher rates of ...

RAWSEP View: But anthropogenic or human-made aerosols are constantly emitted from vehicles, coal power plants, factories, oil refineries, agricultural areas, industrial facilities, ships, and wood burning, among other activities. Since the industrial revolution began in the Global North, the presence of anthropogenic aerosols in the atmosphere had steeply increased along with greenhouse gases. As the air got more and more polluted in the U.S., by 1970, the general public and environmentalists were concerned over poor air quality.

Here's what to do when someone at home has COVID-19 - My Droll

My Droll

PM2.5 has been associated with higher rates of respiratory, ... Similar to sulfate particulate matter, other anthropogenic aerosols like nitrates ...

RAWSEP View: Article on what to do when someone at home has COVID 19 mentions PM 2.5 particulates.

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?