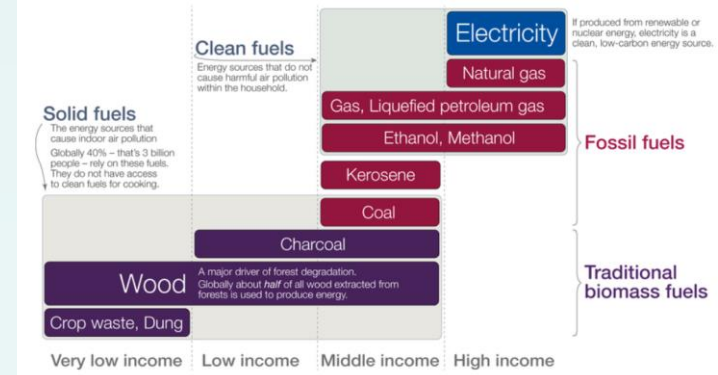


Episode 56ZO November 4 2024. The poorest burn wood, other biomass, crop waste, and dried dung. What if these wood burning entertainments were replaced by a Ferris Wheel or other electricity run fun fair rides powered by clean energy of solar, wind and geothermal energy saved on batteries with long storage times? Then we could have Election Day in the United States on November 5, 2024, which coincides with the currently air polluting Guy Fawkes Day in the United Kingdom celebrated with clean energy! Or RAWSEP's editor just wanted to use this neat-o Ferris Wheel Template! Enjoy! In Episode 56ZN 1 World. The poorest burn wood, other biomass, crop waste, and dried dung. 2 United States 3 California Heat Pumps. 4 Mississippi. Why The Future Of Wood Burning Stoves In Homes Is Uncertain. 5 New York. Tompkins County 30 day burn ban and Ithaca College cancels fireworks. 6 Oregon 7 Washington 8A United Kingdom. **RAWSEP View.** Bonfire Night in the United Kingdom is November 5, 2024. Previously organized bonfires are being cancelled this year by local councils in Oxford, Dudley, Hoylake Beach and Colchester. 9 Europe. Heat Pumps. 10 Macedonia Galicica, Ramne, and Velgoshti. SOS Ohrid. **RAWSEP View.** It is interesting that the business elites are pushing wood burning in Galicica Macedonia. Apparently the poor are suffering from the air pollution from wood burning more directly than the business elites, in this instance. 11 India. Delhi air pollution from indoor residential wood burning, stubble burning and Diwali fireworks. 12 Thailand 13 PM2.5 and human health. Main Content. 1 World. The Energy Ladder. Energy poverty and indoor air pollution: a problem as old as humanity that we can end within our lifetime. About 3 billion people in the world do not have access to modern energy sources for cooking. Millions die from indoor air pollution every year. July 5, 2021. **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates, a 501c3 nonprofit organization.** The poorest households burn wood and other biomass, like crop waste and dried dung. Those who can afford it cook and heat with charcoal or coal. Burning these solid fuels on open fires or simple stoves fills the room with smoke and toxic chemicals. These traditional energy sources expose those in the household – often women and children – to pollution levels that are far higher than in even the most polluted cities in the world. 2 United States. 6 Questions You Asked Yourself about Solar. Uncharted Territories. This is also why we can expect heat pump prices to continue falling. 4. What Use Cases Are There for Solar Supply and Demand Colocation? United States. Ask Eric. A small appliance upgrade can make for big savings! YouTube. Heat Pump Water Heaters are a great way to save on your energy bills. To find out more about repairable Made in USA water heaters head to. United States. Bock CO2 compressor scoops AHR Award. Cooling Post. heat pump. LG's heat pump is said to operate effectively at temperatures as low as 31°C retains full heating capacity at negative 25°C and. United States. The government wants to pay you \$10,000 to upgrade your HVAC. The Cool Down. Heat pumps are versatile appliances that move heat between the inside and outside of a home using compressed and decompressed refrigerant. A heat pump can save you thousands of dollars in heating and cooling rebate for installing a modern dual use heat pump for space heating. United States. The government wants to pay you \$10,000 to upgrade your HVAC. MSN. heat pumps to heat and cool their homes. This is important to know because the upfront cost of a heat pump typically ranges from \$4,000 to \$8,000. Should I turn off a heat pump at night? No. experts explain why. United States. HVAC Excellence Welcomes Dr. Michael Spangler to the Accreditation Team. ACHR News. The HVACR field is undergoing rapid technological advancement from communicating controls and building automation to heat pump water heaters remote. United States. This law is giving American families \$8.8 billion to upgrade their homes The Cool Down. The heat pump is an elegant replacement for the furnace and cheaper to use in the long run. So if you want to do any home improvements or. 3 California. Hot For Your House. PGE's home energy analysis quiz and customer dashboard. YouTube. heat pumps. And with this new dashboard you can see exactly First Look. Octopus Energy Cozy 6 Heat Pump Install! 4 Mississippi. Gluckstadt leaders pass firearms ordinance. MSN. Why The Future Of Wood Burning Stoves In Homes Is Uncertain. House Digest. GLUCKSTADT, Mississippi. 5 New York Tompkins County Ithaca. County officials issue 30 day burn ban. Ithaca College cancels fireworks. 14850.com the 14850 Magazine Daily newsletter. A bonfire burns with wood pallets. 6 Oregon. The Klamath Falls open burn window starts November 9<sup>th</sup>. YouTube. Make sure to follow regulations and check if you can burn debris. 7A Washington Seattle. Delivery Driver Rescues Woman From Her Burning Home. Newsradio WOOD 1300 and 106.9 FM. Nas Mohamed was on his early morning delivery route when he smelled smoke and followed it to a mobile home engulfed in flames. Upon arriving at. 7B Washington Walla Walla. What is Initiative 2117? Northwest Public Broadcasting. heat pump through the Climate Commitment Act. Things will be different next summer as Brown is getting an energy efficient heat pump to heat and. November 2, 2024. Phuong Brown, a retiree in Walla Walla, received a free heat pump through the Climate Commitment Act. Initiative 2117 aims to repeal the act. 8A United Kingdom. **RAWSEP View.** Bonfire Night in the United Kingdom is November 5, 2024. Previously organized bonfires are being cancelled this year by local councils

## The 'Energy Ladder'

The dominant energy source for cooking and heating, by level of income



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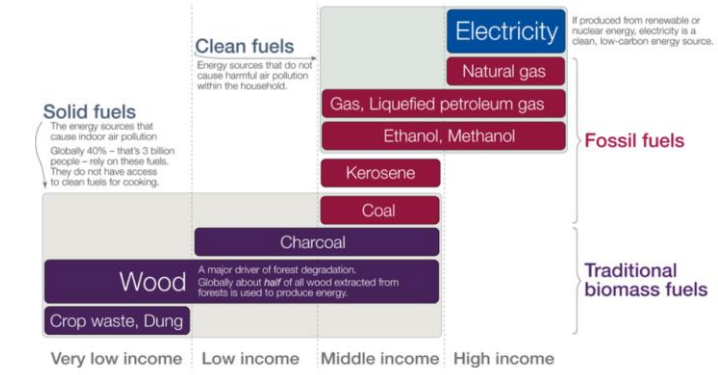
in Oxford, Dudley, Hoylake Beach and Colchester. **RAWSEP Key Excerpt** from the articles in the Daily Star. "Oxford's council banned its bonfire for 20,000 people after locals complained about smoke pollution last year. Green Party Council Member Alex Powell said: "I'm pleased there's no bonfire." **RAWSEP View.** Besides the air pollution from bonfire wood burning smoke, animals crawl inside bonfires before they are lit and can be killed accidentally this way. From the article. "loud bangs and flashes on Bonfire Night can strike fear in dogs. New research from Pets at Home reveals that 60% of pet owners in the UK have seen increased anxiety in their pets around fireworks." From the second article in the Liverpool Echo. In Liverpool the Environment Agency is urging people to attend the official Liverpool bonfire if they must attend a bonfire, and the Liverpool Environment Agency is threatening those who start their own bonfires with 50,000 pound fines. This halfway measure not banning bonfires entirely in Liverpool is echoed in the weak and wrong advice from the 2nd article. The wet wood creates smoke which can spread and cause a nuisance to neighbors. **RAWSEP View.** Wet wood or dry wood, wood creates wood smoke that neighbors could justly complain about. Just don't burn wood to begin with. Burning wood is not burning wise and is not Burnwise. There are alternate means of home heating that are clean and cheaper than burning wood and other solid fuels, including Heat Pumps that work down to 40 degrees below, can double as air conditioners and which lower monthly electric bills immediately. Heat Pumps run on electricity and that electricity can come in the near future from wind, solar and geothermal truly clean energy sources from an electric grid extending to all rural areas. The tabloid Daily Star labels those who cancelled bonfires with epithets ranging from fun police and killjoys to jobsworth. Jobsworth is defined as an overzealous official. An official who upholds petty rules even at the expense of humanity or common sense: informal, derogatory British "parks abound with jobsworths who delight in yelling that you can't do that without special permission" **RAWSEP View.** This banning of bonfires is not a petty rule. It is a rule that recognizes the humanity of our fellow men and seeks to protect the health of near neighbors of those who would burn wood unnecessarily. Thankfully there are laws against drunk driving and speeding which reduce the number of fatalities from drunk driving and speeding. In this day and age if a tabloid labelled a traffic enforcement officer a jobsworth who is spoiling the fun of driving drunk or speeding, that tabloid might be labeled irresponsible and that tabloid might even seem to be inciting drunk driving and speeding which can raise the risk of traffic fatalities. We know enough about the threats to human health of PM2.5 from wood burning, and the list is long, including lung cancer, asthma, heart attacks and early death to begin with. The short term effects of breathing wood smoke are the effects that set people fleeing from their homes during house fires to avoid dying from smoke inhalation in acute incidents. Just as we use rules to reduce the risk of traffic accidents that kill people we should use rules to reduce the preventable illnesses, whether long term or occurring acutely, brought by proximity of human beings to wood smoke air pollution brought on by unnecessary wood burning. **RAWSEP View.** It is really not a joy and fun to cause harm to other people. Not causing harm to humans will also protect the pets and horses mentioned in these two articles. Hopefully Liverpool will move to ban bonfires entirely in the future, as more education of the public occurs on the harm from wood smoke. 8B United Kingdom. Britain's bonfire battle as councils scrap Guy Fawkes Night events across the country. Daily Star. Council killjoys have been cancelling bonfires and firework displays blaming smoke. Britain's bonfire battle as councils scrap Guy Fawkes Night events across the country. The fun police have chucked a bucket of cold water on Bonfire Night celebrations as councils have banned parties amid complaints about smoke, noise and mud up and down the country. **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates, a 501c3 nonprofit organization.** November 2, 2024. Fireworks are proving increasingly controversial as well as bonfires. Never miss any of the fun stuff. Get the biggest stories and wackiest takes from the Daily Star. Council killjoys have been cancelling bonfires and firework displays. Daily Star. Your Daily Star isn't impressed at the tradition being stopped by certain councils. Dudley council in the West Midlands axed its fire for 25,000 spectators, claiming it didn't have enough wood. Among other cancellations a bonfire on Hoylake Beach, Wirral, was ditched after the council refused to let vehicles carry wood to the beach, and Colchester, Essex, saw its fireworks axed because it was too noisy for nearby horses. 8C United Kingdom Liverpool. £50 000 fine warning issued ahead of Bonfire Night. Liverpool Echo. They added that using wet wood creates smoke which can spread and cause a nuisance to neighbors. This smoke can quickly get out of control if not. £50,000 fine warning issued ahead of Bonfire Night. People are being urged to go to an organized event. **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates, a 501c3 nonprofit organization.** November 3, 2024. A warning has been issued to households ahead of Bonfire Night (November 5). Those who are planning to host their own firework displays or bonfire have been urged not to burn household waste. With Bonfire Night fast approaching, the Environment Agency is encouraging those planning to celebrate to



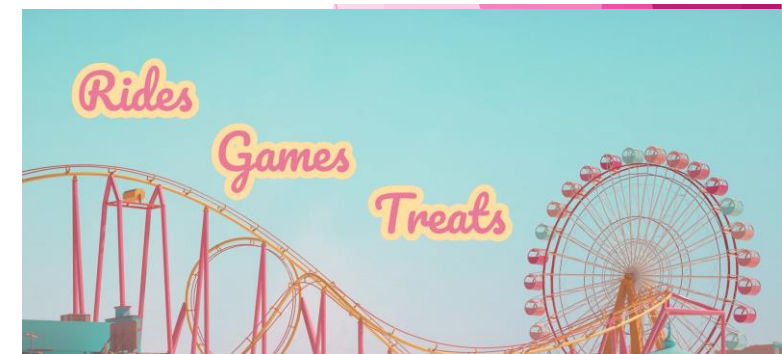
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Our World in Data



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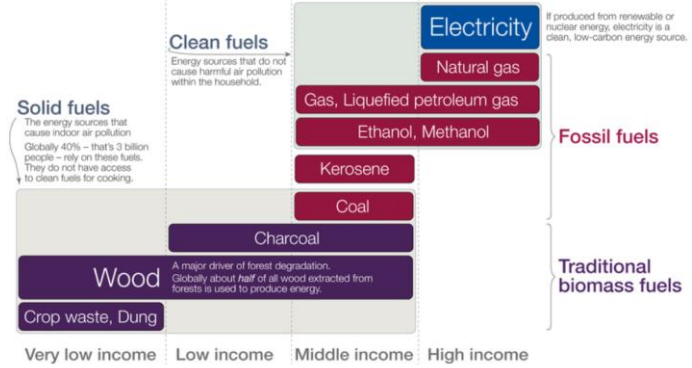


go to an organized event instead of risking a hefty fine by holding their own. A huge fine of £50,000 could be handed out to those who break the rules. Burning household waste can cause pollution, harm people, wildlife and the environment. You can still safely have a bonfire at home depending on what is burned. Area manager of Dorset & Wiltshire Fire and Rescue Service, said: "We would always urge people to attend organized bonfire and fireworks events as it's much safer. In addition, it reduces the potential pressure on the fire and rescue service at a time of year when we can be extremely busy." 8D. United Kingdom RAWSEP View. Planting trees is nice but planting trees doesn't stop PM2.5 pollution from wood burning. 90% of wood burning emissions is PM2.5 particulate matter of 2.5 micrometer size the perfect size to infiltrate the human lung setting off a cascade of human health problems and early deaths. Trees do not absorb PM2.5 from wood burning. Through photosynthesis mature trees do absorb CO2 and emit Oxygen in return, but in a recent report has shown that in the presence of wood burning wildfires trees "hold their breath" like humans do, by closing their pores and stopping or slowing photosynthesis, thus reducing absorption of CO2 itself in the presence of PM2.5. So planting trees is not the solution to the air pollution caused by wood burning. From the article. 8E United Kingdom. West Molesey. A Tree planting event aims to boost biodiversity. BBC. Council to deter wood burning after Defra funding. Consumers urged to take up plastic free challenge. Related internet links. Elmbridge Borough. 9 Europe. Winter arrives in Europe two years after the energy crisis. Delano.lu In addition the installation of 3m heat pumps by 2022 has helped to reduce demand for gas. The authorities hope that changing consumer habits and the. 10A Macedonia Galicica, Ramne, and Velgoshti. SOS Ohrid. RAWSEP View. It is interesting that the business elites are pushing wood burning in Galicica Macedonia. Apparently the poor are suffering from the air pollution from wood burning more directly than the business elites, in this instance. Galicica is burning for wood for heating and for the interest of business elites. From the article headline. 10B Telegraf. There was a fire again in Galicica. This time the space between the village of Velgoshti and Ramne was burned. From the SOS Ohrid initiative, they say that because they do not have information, they cannot be sure if the fire involved the active management area or only the area for sustainable use, Telegraph Macedonia reports. "Fires in the part of Galicica are frequent and this is a well-known fact. As causes, without exception is man. However, the public has not yet heard the legal results of these cases, including the terrible fire of 2007, which engulfed 7 kilometers. The presence of people in the mountainous areas carries a risk of other fires in the mountains", it is said, among other things, in the reaction of the organization SOS Ohri. They also accuse the Ministry of Forestry in Macedonia for, as they say, irresponsibility in the Galicica mountains in Ohrid./Telegraf/ 10C Macedonia. Energy poverty will cause pollution in Macedonia. Telegraph. Telegraf. Unfortunately in houses where old wood burning stoves are used which are not well insulated do not have efficiency the pollution is much higher. 11 India. Delhi air pollution from indoor residential wood burning, stubble burning and Diwali fireworks. 11A India. Delhi. AQI at 364. residents face difficulty in breathing. The Economic Times. Delhi struggles to breathe days after Diwali. AQI crosses 500 PM2.5 level over 65 times more than WHO limit. 11B India. Delhi's AQI worsens to lower end of 'very poor'. transport still major contributor. The Indian Express. The 24 hour average Particulate Matter PM2.5 and PM10 were 180.4 ug/m3 and 303.9 ug/m3 respectively according to the Central Pollution Control. 11C India. Statsguru. Delhi AQI worst among major cities after Diwali celebrations. Business Standard. PM2.5 guidelines. Source. IQAir. Business Standard. What you get on BS Premium? Unlock 30+ premium stories daily hand-picked by our editors across. 11D India. Delhi struggles to breathe days after Diwali. AQI crosses 500 PM2.5 level over 65 times more than WHO limit. The Economic Times. Delhi's air quality index crossed 400 two days after Diwali putting it in the hazardous category. A thick layer of smog covers the city. MSN. 11E India. Peak Diwali pollution in Delhi 13% higher than last year. CSE report. Hindustan Times. The peak concentration level of particulate matter PM2.5 was 13% higher at midnight on Diwali this year compared to 2022 and 2023 according to 11F India. Puducherry records 'very poor' air quality day after Deepavali. The Hindu. The data received from Continuous Ambient Air Quality Monitoring station located at Jawahar Nagar revealed that the concentration of PM10 and PM2.5. 12 Thailand. PM2.5 and ocular health. Impact of fine particulate matter PM2.5 on ocular health among people living in Chiang. Nature. Lymphocyte counts were also positively correlated with redness watering and dryness during high PM2.5 exposure. In conclusion our study shows that. 13 PM2.5 and early pregnancy loss. Periovolatory PM2.5 constituent exposures and human clinically recognized early pregnancy loss. ScienceDirect.com CREPL linearly increased with periovolatory PM2.5 SO42- NO3- and NH4+ exposures. Organic matter exposure during 2-3 weeks after ovulation.



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