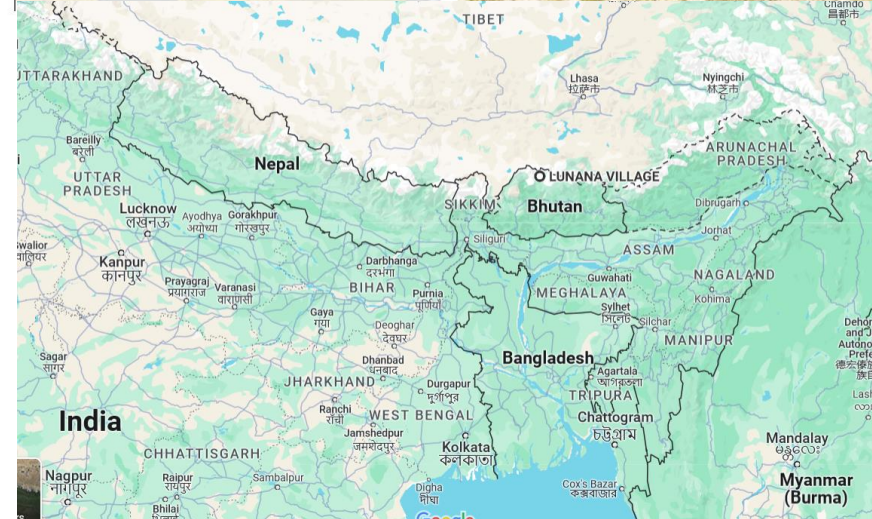


Episode 56VQ, July 8, 2024. Electrifying Bhutan, to replace polluting wood burning. In Episode 56VQ, 1)World. Wood Burning particulates in kitchens. 2)California, Santa Barbara County. Lake Fire Grows to 12,227 Acres, Evacuation Warnings Remain. 3)Florida, Orlando. Man pulled from burning home was shot. 4)Idaho, Nampa. Overnight fire spreads flames through Fruitland. 5)Michigan, Detroit. Fireworks helped make Detroit air quality 'unhealthy' Friday. Detroit. 6)Oregon. Three Multnomah County cooling centers opening at noon today, 7)Pennsylvania, Pittsburgh. Firefighters stop forward progress of 55-acre blaze that threatened homes in Pittsburgh. 8)Pennsylvania. RAWSEP View: RAWSEP does not condone burning mobile homes and instead condemns the practice. From the news story: Rimersburg Reviews Ordinances After Five Residents Burn Motor Homes in Borough. 9)West Virginia, Governor's Race. RAWSEP View: A candidate with knowledge of the sickened communities near coal plants hopefully will replace them with solar and wind energy sources as promised, not more highly polluting wood fired power plants. From the News Story: Vying for West Virginia Governor, an 'All of the Above' Democrat Faces Long Odds Against a Republican Fossil Fuel Booster. Huntington Mayor Steve Williams runs as a Democrat in West Virginia, a state still 90 percent dependent on coal for electricity. 10)Wisconsin and neighboring Michigan. Detroit's air quality 'very unhealthy' following Fourth of July fireworks. The Detroit News. Fine particulate matter pollution, with particles smaller than 2.5 The Wisconsin Department of Natural Resources has found spikes in PM 2.5, 11)Canada, Alberta. High Level Forest Area Update. 12)Canada, British Columbia, Lake Cowichan. Some of us can't afford Hydro bills. (The letter writer believes that Hydro bill payers pay for subsidies to solar panel owners). 13)United Kingdom. Conservative Think Tank Bright Blue. Minister issues wood-burning stoves update as smoke emission limits to be lowered. 14)United Kingdom. Thousands of children under 5 admitted to London hospitals for breathing issues. 15)United Kingdom. Log burner owners told they face £300 fine under new rules. 16)United Kingdom. Air Pollution Is Harming Human Life says. "THE LANCET" Company. 17) Bhutan, Lunana Gewog, Shangsa Village. RAWSEP View: Bhutan is a landlocked, mountainous country next to Tibet and India, and close to Nepal. Electrification of all the 13 villages in the Lunana Gewog of Bhutan is needed so that women will not have to travel miles to gather wood and primarily women as cooks over wood fires will not continue to experience the ill health effects of exposure to wood smoke, which often results in early deaths for these women. Electrification will likely happen, not from direct connection to the Bhutan national electricity grid, because of lack of road access, but by using solar energy and hydropower, with solar panel components having to be airlifted in. (1st news story of 2 about Bhutan, Lunana Gewog, Shangsa village and other villages). Second Lunana village. Shangsa, to get electricity. 18)India. 19)Vietnam. Nine workers injured in Binh Duong wood dust explosion. Main Content. 1)World. Wood Burning particulates in kitchens. Brief: Household Multiple Emission Sources (HOMES) model. World Health Organization (WHO). By specifying characteristics of the household and devices, users can determine expected levels of fine particulate matter (PM2.5) in kitchens. 2)California, Santa Barbara County. Lake Fire Grows to 12,227 Acres, Evacuation Warnings Remain. edhat. Thank you, looked it up and @ my eastside location it's yellow/MODERATE PM 2.5, Was looking out the window. 3)Florida, Orlando. Man pulled from burning home was shot, Lake County deputies say. WFTV. Investigators said law enforcement was called to the home on Wood Duck Road in Altoona around 1 p.m. after neighbors reported that the house was. Man found dead inside burning house in Lake County. WESH. At around 1 p.m., Lake County Fire Rescue responded to calls reporting a house fire and gunshots at Wood Duck Road in Altoona. 4)Idaho, Nampa. Overnight fire spreads flames through Fruitland. KIVI-TV. Anybody's around here," says Fruitland resident. The farmland is right across the street from the Fruitland Fire Department. 5)Michigan, Detroit. Fireworks helped make Detroit air quality 'unhealthy' Friday. Detroit Free Press. Higher amounts of fine particulate matter, PM-2.5, often occur around July 4, but the amount this year was unusually high, Planet Detroit. The government air monitoring website airnow.gov showed PM 2.5 or fine particulate matter levels rising to 579 at 12 AM, a level identified as "beyond". 6)Oregon. Three Multnomah County cooling centers opening at noon today, Saturday, July 6.

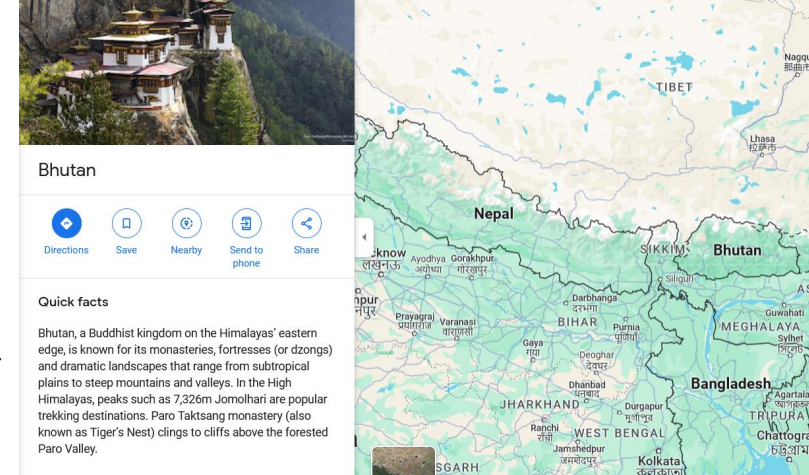


June 12, 2024 Shangsa village in Lunana is set to benefit from clean and reliable energy by August this year. The work is underway to install a solar system for the 10 households of the village.

7) Pennsylvania, Pittsburgh. Firefighters stop forward progress of 55-acre blaze that threatened homes in Pittsburgh. MSN. responding. 9 Reasons You Should Avoid a Wood-Burning Fireplace. 8) Pennsylvania. RAWSEP View: RAWSEP does not condone burning mobile homes and instead condemns the practice. From the news story: Rimersburg Reviews Ordinances After Five Residents Burn Motor Homes in Borough. exploreClarion. The residents reportedly disassembled the motor homes, burned the wood parts, and planned to sell the remaining metal for scrap. 9) West Virginia, Governor's Race. RAWSEP View: A candidate with knowledge of the sickened communities near coal plants hopefully will replace them with solar and wind energy sources as promised, not more highly polluting wood fired power plants. From the News Story: Vying for West Virginia Governor, an 'All of the Above' Democrat Faces Long Odds Against a Republican Fossil Fuel Booster. Huntington Mayor Steve Williams runs as a Democrat in West Virginia, a state still 90 percent dependent on coal for electricity. Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates, a 501c3 nonprofit organization. July 7, 2024. In the race for West Virginia Governor, it's Huntington Mayor Steve Williams against Patrick Morrisey, the state's attorney general. Based on their records and rhetoric, one candidate seeking to be the next governor of West Virginia supports a broad-based energy policy, from coal to renewables. And the other is laser-focused on fossil fuels. The Democrat in the race, Huntington Mayor Steve Williams, who has overseen an economic recovery in the state's second-largest city, told the Mountain State Gazette in May that he sees a need to support renewable sources such as wind and solar in addition to natural gas and coal. He said he wants West Virginia to be known as an "energy state," not merely a "coal state." As of late June, Williams had raised a paltry \$31,000, with \$30,000 still to spend. But Williams is supported by a committee that includes Republicans and Democrats who believe his experience and work ethic would bode well for the economy of West Virginia, And as the coal industry has waned, it's left behind ecological destruction including sick, impoverished communities. Using a term popularized by politicians, Williams has an "all of the above" energy strategy. 10) Wisconsin and neighboring Michigan. Detroit's air quality 'very unhealthy' following Fourth of July fireworks. The Detroit News. Fine particulate matter pollution, with particles smaller than 2.5 The Wisconsin Department of Natural Resources has found spikes in PM 2.5, 11) Canada, Alberta. High Level Forest Area Update. July 7, 2024. The Alberta Wildfire Blog. Government of Alberta. Safe wood campfires within fire rings in campgrounds are allowed. Crews are burning off unburnt fuel to tie the fire into the streams. 12) Canada, British Columbia, Lake Cowichan. Some of us can't afford Hydro bills. (The letter writer believes that Hydro bill payers pay for subsidies to solar panel owners). Lake Cowichan Gazette. From North Cowichan municipal page: PM2.5 is produced from all types of combustion including wood burning, forest fires and vehicles. Recent studies. Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates, a 501c3 nonprofit organization. 98 per cent of power generated by Hydro with its dams (is green). I recognize that dams are not as "green" as solar but they are still green. And dams deliver peak load when we need it (7 to 9 a.m. and 6 to 8 p.m.) and solar does not. Hydro's charge to customers is based on what it costs them to generate, transmit, service and administer the electricity of this province. (Solar energy generators) deserve to be paid for generating electricity when it's not dark, but there should be no payment for things they don't do. Why is it Hydro customers, most of whom cannot afford the solar panels, who do the subsidizing (of solar panel owners)? A resident, British Columbia. 13) United Kingdom. Conservative Think Tank Bright Blue. Minister issues wood-burning stoves update as smoke emission limits to be lowered. MSN. Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates, a 501c3 nonprofit organization. Minister Robbie Moore has responded to questions over the burning of unauthorized fuels such as wood in smoke control areas. Government minister has issued a wood-burning stoves update on emission testing ahead of tighter controls on smoke levels. The response comes after recent reports said the appliances should come with a new health warning. Conservative think tank Bright Blue had said there was a "mistaken belief" that "domestic burning is a safer, more environmentally friendly way of heating one's home than



gas boilers." Its report said existing warning labels on the stoves were focused on carbon monoxide emissions and did not include any mention of tiny particles called PM2.5, which are less than 2.5 micrometers in diameter and invisible to the naked eye. Documents from DEFRA, the Department for Environment, Food and Rural Affairs, explain: "These particles are known to enter the bloodstream and are carried into many organs in the body and are linked to a range of health impacts including respiratory and cardiovascular illness, such as aggravation of asthma and respiratory symptoms. This in turn has been linked to an increase in hospital admissions as well as mortality from cardiovascular and respiratory diseases and lung cancer." 14)United Kingdom. Thousands of children under 5 admitted to London hospitals for breathing issues. MyLondon. We need less cars and wood-burning now. For far too long already the air in London and beyond has been so polluted it is making children sick. 15)United Kingdom. Log burner owners told they face £300 fine under new rules. MSN. In 2023 the Department for Environment, Food and Rural Affairs has introduced tougher regulations on wood burning stoves and encouraged councils. MSN. smoke an hour a fine of around £300 could be imposed. Households who use wood-burning stoves in pollution hotspots could face £300 fines and even. 16)United Kingdom. Air Pollution Is Harming Human Life says. "THE LANCET" Company. V6 News. YouTube. PM 2.5 Pollution Takes 33,000 Lives each Year in Indian Cities. Lancet Report Says. ETV Telangana. 17) Bhutan, Lunana Gewog, Shangsa Village. RAWSEP View: Bhutan is a landlocked, mountainous country next to Tibet and India, and close to Nepal. Electrification of all the 13 villages in the Lunana Gewog of Bhutan is needed so that women will not have to travel miles to gather wood and primarily women as cooks over wood fires will not continue to experience the ill health effects of exposure to wood smoke, which often results in early deaths for these women. Electrification will likely happen, not from direct connection to the Bhutan national electricity grid, because of lack of road access, but by using solar energy and hydropower, with solar panel components having to be airlifted in. (1st news story of 2 about Bhutan, Lunana Gewog, Shangsa village and other villages). Second Lunana village. Shangsa, to get electricity. Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates, a 501c3 nonprofit organization. June 12, 2024. Shangsa village in Lunana is set to benefit from clean and reliable energy by August 2024. The work is underway to install a solar system for the 10 households of the village. Shangsa will be the second village out of thirteen villages in Lunana to receive power. Ramina village, which is connected to a road, received hydroelectricity last year. The Ministry of Energy and Natural Resources found it technically unfeasible to provide hydropower throughout Lunana due to challenges related to extending the electricity grid. It is now exploring a solar system as an alternative to hydroelectricity. The contract to install the solar system in Shangsa (village) was awarded last November. Underground cable laying, house wiring, ground levelling, and the construction of footings and control room have been completed. The project is now waiting for the supply of solar modules, batteries, and other components for installation. Shangsa is one of the remotest villages in Lunana Gewog. Located at about (2.1 miles) above sea level, it is about eight days on foot from the nearest road point. Currently, like other villages in Lunana, Shangsa has only solar lighting, which is capable of lighting homes and charging phones. Only five percent of Lunana gewog is electrified. "There is an urgent need for all of Lunana to get access to electricity due to health concerns for women and children from their exposure to firewood smoke and the hardship of collecting firewood from the forest, which often takes days of walking." Bhutan has achieved almost 99.9 percent of electrification, but Lunana gewog still does not have access to the grid, being one of the remotest gewogs in the country without road access, except for Ramina village. The energy department is looking to electrify the remaining 12 villages of Lunana Gewog. the energy department is looking to develop a mini hydro plant in Lunana, which could reduce reliance on batteries for storage and enhance the reliability of supply. Tshojong village got an off-grid solar plant in 2022. (2nd news story about Bhutan, Lunana Gewog, Tenchoe village, Shangsa village and eleven other villages) What it takes to electrify the country's last gewog. Kuensel Online. When she returns from firewood collection, A 50 year old woman has no time to rest and immediately prepares dinner by burning fuel wood on a stove. Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents



June 12, 2024 Shangsa village in Lunana is set to benefit from clean and reliable energy by August this year. [The work is underway to install a solar system for the 10 households of the village.

Against Wood Smoke Emission Particulates, a 501c3 nonprofit organization. July 5th, 2024. A 50 year old woman from Tenchoe village in Lunana, has been collecting fuel wood for as long as she can remember. She walks into the forest, about three hours away by 6:00am, collects small pieces of wood, packs them on her back, and returns home by 4:00pm whenever fuel wood is exhausted at home, about twice a week. Her eyes are rheumy from prolonged exposure to indoor pollution, she frequently coughs, and her eyes strain when she looks at screens. Bhutan has achieved about 99.5 percent national grid electricity coverage for households. Lunana is the last remaining gewog with 11 villages, including Tenchoe Village, still without access to clean energy, except for Ramina that got electricity from the national grid last year, and Shangsa, where a solar power system is under construction. For home lighting, the country has achieved 100 percent coverage. Lunana relies on solar home lighting, which can only light homes and charge phones. Without access to clean energy, this 50 year old woman's work is a daily reality for Lunaps, especially for women and children who are involved in firewood collection. "It is traditional that women do more work in Lunana, and fuel wood collection has always been mostly done by women and children. We now have horses, so men and younger women also ride horses to bring logs." A 2019 study found that each household in Lunana consumes about 2.9 tons of firewood annually, totaling 502 tons across these villages. There is an urgent need for all of Lunana to get access to electricity due to health concerns for women and children from their exposure to firewood smoke and the hardship of collecting firewood from the forest, which often takes days of walking." What does it take to electrify Lunana? After determining that connecting Lunana to the national electricity grid was not feasible for various reasons, the government is now exploring alternative methods such as mini-hydropower and solar energy. The Department of Energy is seeking funding to construct a mini-hydropower plant worth about (7 million US dollars) in Lunana. The challenges in electrifying Lunana include the few roads, necessitating airlifting by helicopter. installation of the solar power system in Shangsa also involves airlifting solar components by helicopter.

18A)India. factors like temperature influence spikes in PM 2.5 pollution in summer: Study. The Indian Express. While the PM 2.5 levels exceeded national ambient air quality standards in all cities, the study revealed that higher temperatures caused occasional. 18B)India. Air pollution has gone up even in summer: Study. Deccan Herald. PM 2.5 concentrations across big cities consistently exceed the presence of particulate matter (PM2.5) in the atmosphere is.

18C)India. Air Pollution: Urban India's Silent Killer, What Makes PM 2.5 Silent Killer? YouTube. PM 2.5 is able to go down to the deepest of our lungs and can cause severe damage there. Lancet study says Air pollution is behind 7% of deaths, 18D)India. Air pollution blamed for 5.6% of Hyderabad deaths, study finds. The New Indian Express. HYDERABAD : A new study mapping the association between Particulate Matter (PM) 2.5 It says that 5,552 deaths that occurred in Hyderabad during this. 18E)India. Over 1500 annual deaths in Hyderabad linked to air pollution. The Siasat Daily. PM 2.5 exposure. 5552 deaths due to air pollution in Hyderabad between 2008 and 2019. 18F)India. Delhi's Brown Air Leaves Residents Teary-Eyed Ahead Of Diwali As AQI Rises. MSN. The government-prescribed safe limit for the concentration of PM 2.5, fine particulate matter capable of penetrating deep into the respiratory. 19)Vietnam. Nine workers injured in Binh Duong wood Limited Company operating in Tan Binh industrial zone of bac Tan Uyen district.. According to initial reports, a maintenance worker found smoke when. dust explosion. VOV.VN.

What it takes to electrify the country's last gewog

July 5th, 2024



Bhutan



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Quick facts

Bhutan, a Buddhist kingdom on the Himalayas' eastern edge, is known for its monasteries, fortresses (or dzongs) and dramatic landscapes that range from subtropical plains to steep mountains and valleys. In the High Himalayas, peaks such as 7,326m Jomolhari are popular trekking destinations. Paro Taktsang monastery (also known as Tiger's Nest) clings to cliffs above the forested Paro Valley.

