

Episode 56NN December 20, 2023. The London (ending) woodburning project, Maine offers rebates for Heat Pumps.

United Kingdom, London. <https://woodburning.london/> The London woodburning project video. Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates, a 501c3 nonprofit organization. Mesmerized by the warm and cozy fire? Is it doing more harm than you THINK? Wood Burning at Home. How do you feel about open fires, wood burners and even wood smoke? It has long been known that the small particles released by solid fuel burning can stay in the air and even [travel long distances](#). These small particles, when inhaled, can increase your risk of stroke, asthma, lung cancer, heart disease and dementia. It is estimated that around 4,000 premature deaths occur each year in London due to long-term exposure to air pollution, of which about 284 are attributable to domestic wood burning. Every one of those 284 deaths is completely avoidable. Domestic wood burning has a health and economic cost of about £187 million per year in London. That's a cost of £24 for every London resident, whether you burn solid fuels or not. The most effective way of reducing pollution and protecting everyone's health is simply to avoid burning any wood, coal, or other solid fuels at home. Find out more about the [health impacts of domestic wood burning here](#), support us by sharing our messages and materials, and take a step towards better air quality in London. RAWSEP View: The words "fossil fuel" trip off the tongue and provide cover for wood burners. Against all scientific evidence wood burners still cling to the misinformation that wood burning is a legitimate alternative to fossil fuels, when it should be widely known that wood burning emits more CO<sub>2</sub> and PM<sub>2.5</sub> than the fossil fuel coal burning. Wood burning emits 450 times the PM<sub>2.5</sub> than the fossil fuel natural gas burning. Maine is including wood burning stoves along with Heat Pumps as alternatives to fossil fuel use. Replacing fossil fuels with wood burning is increasing pollution, if Maine doesn't realize it. Maine clarified its new heat pump rebate program (which was initiated by the Federal Government, allowing states to release the rebates using their own state program rules. Maine has apparently added wood stoves to its program, which is inherently stupid and regressive of the State of Maine. Eliminating fossil fuel use should not be the outcome desired, the outcome desired should be clean energy for home heating. From the article below "The (State of Maine) rebate rules suggest "room heaters, a wood stove, or small space heaters," Stoddard said, to cover up to 20% of the home's heating load alongside the whole-house heat pump system." That is the only mention of wood burning in this article but it is harmful enough to imply that wood burning should be a part of home heating "improvements" in 2024. <https://energynews-us.translate.google.com/2023/12/20/maine-turns-its-heat-pump-focus-to-whole-house-systems-that-can-all-but-eliminate-fossil-fuel-use/> Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates, a 501c3 nonprofit organization. Maine turns its heat pump focus to 'whole-house' systems that can all but eliminate fossil fuel use. The state recently clarified requirements for a new heat pump rebate program, which encourages participants to use the technology for at least 80% of their home heating. December 20, 2023. New state incentives are pushing Mainers to adopt "whole-house" heat pump systems. [Federal tax credits](#) are still available for a wider range of heat pump installations, and the state offers [rebates for low-income households](#) to install a heat pump as a supplemental heat source. But the latest big rebate for families of any income in Maine, which has become a national leader in heat pump adoption, focuses on using this technology to heat and cool the user's entire house — or close to it. To receive Efficiency Maine's [new rebate](#), which covers 40% of project costs up to a \$4,000 cap for people of any income or more for those of lower incomes, a heat pump system must be sized to serve at least 80% of the home's potential heating load. Complying with statutory targets of cutting emissions 45% over 1990 levels by 2030 and 80% by 2050. This sector, which includes schools, businesses and more along with homes and apartments, is second only to transportation in contributing to Maine's emissions. This past summer, the state [hit an initial target](#) of installing 100,000 heat pumps relative to 2019. Now, it's working toward another 175,000 more units by 2027. the goal is to see 130,000 homes with one or two heat pump units by 2030, and 115,000 more with whole-house systems. "The efficiency levels of heat pumps can be two-X, three-X, four-X technology compared to a combustion system. Maine had about 580,000 households in 2022, per the [U.S. Census](#), and about 56% of them use heating oil, according to federal data — slightly lower than in recent years, but still the highest rate in the country. The state aims to make its energy usage 100% renewable by 2040. Can you use fossil fuels alongside whole-house heat pumps? The answer is technically yes, but ideally no, at least under Maine's new rebate. As they switch to whole-house heat pumps, eligible customers are [asked](#) to turn their oil- or gas-powered furnaces or boilers and connected thermostats off or all the way down, and to [cover](#) the systems' switches. This fall, Maine [walked back](#) an earlier requirement that old fossil-fired systems be disabled or disconnected from electrical service entirely, with locks on their switches, amid [pushback from heat pump installers and fuel oil vendors](#) about reliability and other concerns. other heat pump configurations can still help vastly reduce fossil fuel use and costs, especially with [state and federal incentives](#). "Heat pumps still make sense, even a house

that doesn't have the perfect layout," Headlines. World. [Why we need more heat pumps | New Internationalist](#) wood-burning stoves. The potential impact is huge: currently heating and hot water combined account for half of all energy used in buildings. United States. [Proteomic analysis reveals activation of platelet- and fibrosis-related pathways in hearts of ApoE](#) Nature The adverse effects of air pollution are primarily attributed to particulate matter with diameter < 2.5 µm (PM2.5). Global PM2.5-related mortality. United States. [An intercomparison of weather normalization of PM 2.5 concentration using traditional - Nature](#) The trends of PM2.5 showed insignificant differences ( $p > 0.05$ ) for both the emission-related ( ) and meteorology-related components between TSM, ML. United States. [Fresh Research for Fresh Air: Harnessing microbes for removing indoor pollutants](#) Maine. Bangor. [What to do with fallen wood during storm cleanup - Bangor Daily News](#) Bangor Daily News However, if you use an outdoor wood-fired furnace that pumps heat into the house, Deighan said, that can burn all varieties of soft and hard wood EurekaAlert! wood-burning. Current methods for the removal of these pollutants are largely limited to adsorption techniques, which use an activated carbon. Alabama. [Black Belt wood pellet plant faces financial turmoil, questions about environmental impact](#) Alabama Reflector Peer-reviewed studies, however, have shown that producing energy by burning wood pellets emits more carbon dioxide emissions than coal, leading. Louisiana, New Orleans. [Photos: 40-foot long fish, more wooden structures to burn on Christmas Eve in River Parishes](#) NOLA.com Photos: 40-foot long fish, more wooden structures to burn on Christmas Eve in River Parishes wood to go on the top of his family's bonfire. New Hampshire. ['You, Me And The Woodsmoke,' An Original Surrealist Drama, First Show Of 2024 - Patch](#) Chamber Collaborative: 'You, Me And The Woodsmoke,' An Original Surrealist Drama, First Show Of 2024 - Portsmouth, NH - See the latest. Thailand, Pattaya. [Agencies join hands to address PM 2.5 issue - Pattaya Mail](#) particulate matter PM 2.5 from vehicles. Acknowledging that trucks contribute to 70% of the particulate matter in Bangkok, the ministry is. Thailand, Pattaya. [Pattaya tackles PM2.5 crisis with street cleaning campaign](#) Pattaya Mail. PM 2.5 fine particulate matter, a major source of air pollution in the region. The initiative, which took place along Srichan Road from the Long. United States. [Use of nicotine replacement therapy to reduce children's exposure to second-hand smoke in](#) BMC Public Health - BioMed Central Air quality (PM2.5) was monitored in participant homes for seven days before their first pharmacy visit and 12 weeks later. Qualitative interviews.



