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Washington DC [14](#) Wyoming [15](#) Puerto Rico [16](#) Australia [17](#) Ireland [18](#) United Kingdom
[19](#) Europe [20](#) Ukraine [21](#) China [22](#) Japan Main Content

[1A](#) World heat pump International Energy Agency Heat Pump Taxonomy Analysis
IEA Heat pumps are a cornerstone technology for achieving secure affordable and sustainable
heating They have become one of the most common heating [1B](#) World heat pump
Homeowners in frigid areas are installing heat pumps to handle brutal cold snaps The Cool Down
A Reddit thread gained attention for tackling head-on one of the most common fears about heat pumps
Will these systems actually keep you warm [1C](#) World PM TWO POINT FIVE Machine-learning-
based cardiovascular mortality prediction using a cumulative PM TWO POINT FIVE Nature ML
incorporating PM TWO POINT FIVE demonstrated greater predictive abilities and clinical utility
Including environmental factors into CVD mortality risk scales [1D](#) World PM TWO POINT FIVE
Scaling intra-urban climate fluctuations Nature Cities Nature The impacts of urbanization on
fine particulate matter PM TWO POINT FIVE concentrations empirical evidence from 135 countries
worldwide Environ Pollution

[2A](#) United States heat pump American Homes Need Heat Pumps Not Space Heaters
Nonprofit Quarterly The second is a heat pump which extracts warmth from even freezing outdoor
air and pumps it indoors like a refrigerator moves heat from inside the [2B](#) United States heat pump
DIY heat pumps from Costco? Homeowner searches for real reviews The Cool Down Heat pumps
are generally much more efficient than traditional systems regardless of whether they are professionally
installed or DIY When properly [2C](#) United States heat pump Expert plumber shares how
heat pump water heaters provide bonus air conditioning Yahoo Shopping Heat pumps rely on
similar compression and refrigerant technologies to a traditional AC unit or your refrigerator [2D](#)
United States heat pump Homeowner shares video review of absurdly efficient HVAC units I
have got four of these Yahoo Shopping The company free heat pump marketplace can help
you find efficient heating and cooling solutions and connect you with trusted installers According [2E](#)
United States heat pump Towards optimal heat pump system design with a little help from the
manufacturers Nature Heat pumps decarbonize the building sector yet their high capital
costs relative to gas boilers remain a barrier to widespread adoption

[3A](#) California Bakersfield wood burning Wood Fire burning near Caliente chars 290 acres
Kern County FD KGET dot com Bakersfield California KGET Firefighters have slowed the progress of a
wildfire burning Monday near Caliente and will continue into Tuesday [3B](#) California Davis County
wood smoke Large plume of smoke dominates sky during Davis County prescribed burns –
YouTube [3C](#) California Kern County wood burning Update Full containment now
achieved for Wood Fire in Kern County Fresno Bee Wood Fire initially started 8 37 a m May 18 at
North of Hwy 223 and Hwy 58 West of Tehachapi in Kern County California After being active for Forty
Six [3D](#) California Kern County wood burning Update Containment progress - Wood Fire
in Kern County at Thirty Five Percent Fresno Bee Wood Fire initially started 8 37 a m May 18 at

North of Hwy 223 and Hwy 58 West of Tehachapi in Kern County California After being active for Twenty Three [3E](#) California Kern County wood burning Update Wood Fire spreads to Two Hundred Ninety Four acres in Kern County now Twenty Percent contained Sacramento Bee Wood Fire initially started today at 8 37 a m at North of Hwy 223 and Hwy 58 West of Tehachapi in Kern County California After being active for Eleven [3F](#) California Los Angeles wood smoke LA wildfire smoke 18 times more carcinogenic than ordinary wildfires Air Quality News [Excerpts edited by Residents Against Wood Smoke Emission Particulates](#) AI Summary To understand the implications of LA wildfire smoke being 18 times more carcinogenic than ordinary wildfires consider the following points Wildfire smoke contains harmful chemicals including benzene and formaldehyde The concentration of these carcinogens is significantly higher in LA due to urban pollution Prolonged exposure can increase the risk of respiratory diseases and cancer Vulnerable populations such as children and the elderly are at greater risk Protective measures like wearing masks and staying indoors are essential during smoke events Awareness and preparedness can help mitigate health risks associated with wildfire smoke [3G](#) California Los Angeles wood smoke Southern California wildfire smoke advisory extended into Thursday night NBC Los Angeles Avoid burning wood in your fireplace or firepit and minimize sources of indoor air pollution such as candles incense pan-frying and grilling [3H](#) California Sacramento wood burning Update Wood Fire grows to 469 acres in Kern County now Eighty Five Percent contained Sacramento Bee Wood Fire initially started 8 37 a m May 18 at North of Hwy 223 and Hwy 58 West of Tehachapi in Kern County California After being active for Thirty Four [3i](#) California San Francisco heat pump rebate What to know about water heater changes San Francisco Chronicle Sunday PressReader Heat pump water heaters use the same technology as a separate type of heat pump Allen was expecting at least a \$2500 rebate from his

[3j](#) California San Francisco heat pump rebate SF Bay Area to ban gas water heaters What to know about heat pumps San Francisco Chronicle He is still trying to get a rebate Heat pump water heaters are at the center of one of

[3K](#) California Santa Rosa Island wood burning New video shows how the California Santa Rosa Island caught fire YouTube Video shows the start of a wildfire burning on Santa Rosa Island in the Channel Islands

[3L](#) California Simi Valley wood burning Brush fire destroys structures in Simi Valley YouTube A brush fire broke out in Simi Valley Monday burning several structures and forcing evacuations

[3M](#) California Simi Valley wood burning Sandy Fire near Simi Valley See UC San Diego timelapse video of Southern California wildfire YouTube Thousands under evacuation orders and warnings due to Sandy Fire burning in Ventura County

[3N](#) California Southern California wood smoke Air quality monitors issue smoke advisory for Southern California wildfires [Excerpts edited by Residents Against Wood Smoke Emission Particulates](#) [Avoid using swamp coolers or whole house fans that bring in air from the outside](#) Residents should also avoid burning wood in a fireplace or firepit Southern California Smoke Advisory for Wildfire Impacts Air quality monitors have issued a smoke advisory for Los Angeles Ventura

Riverside and San Bernardino counties due to ongoing wildfires including the Bain Sandy Verona and Santa Rosa Island fires Current Fire Status As of the latest update May 23 Two Thousand Twenty Six the fires are burning and containments are as follows Santa Rosa Island Fire Eighteen Thousand Three Hundred Seventy Nine acres burned Eighty Seven Percent containment Sandy Fire Two Thousand One Hundred Eighty Three acres burned Sixty One Percent containment Bain Fire One Thousand Four Hundred Ninety Seven acres burned Eighty Nine Percent containment Verona Fire Six Hundred Forty Eight acres burned Eighty Seven Percent containment Smoke from the Santa Rosa Island Fire is expected to move across the ocean and along the coastlines of LA and Orange counties bringing moderate air quality to those areas Advisory Details Effective until At least Thursday 10 p m Impacted areas Portions of LA Ventura Riverside and San Bernardino counties near the fires coastal areas from LA to Orange counties may see moderate smoke Air Quality Index AQI Near-fire areas may reach Unhealthy for Sensitive Groups levels by Tuesday night Health Recommendations The South Coast Air Quality Management District SCAQMD advises Stay indoors with windows and doors closed run air conditioning or an air purifier **Avoid using swamp coolers or whole-house fans that draw in outside air** Do not burn wood in fireplaces or firepits candles incense or engage in pan-frying or grilling If outdoors wear a properly fitted N95 or P100 respirator Limit vigorous outdoor activity to reduce inhalation of pollutants Pets Keep pets indoors especially at night watch for signs of respiratory distress such as panting or difficulty breathing KTLA Tip Monitor AQMD updates and local air quality apps for real-time conditions before deciding on outdoor activities

3O California Southern California wood smoke SoCal wildfires trigger serious air quality concerns - YouTube

3P California Southern California wood burning Wildfires trigger air quality advisories across 4 Southern California counties Wednesday KTLA Avoid burning wood in your fireplace or fire pit and minimize indoor air pollution from candles incense pan-frying and grilling If you must be

4A Colorado heat pump rebate Colorado residents who switch to heat pumps can expect more rebates this summer **Excerpts edited by Residents Against Wood Smoke Emission Particulates**

The group behind an upcoming rebate program is hoping to get more Coloradans to make the switch to heat pumps for their heating and cooling needs MSN Power Ahead Colorado will also be launching a One Thousand Five Hundred Dollar rebate program this summer Our typical heat pump installation is probably anywhere from Fifteen Thousand Dollars **4B** Colorado heat pump rebate Heat pump HVAC installations double in Colorado as homeowners see benefits Yahoo Finance Utilities also ramped up their support Xcel Energy alone issued Ten Thousand Six Hundred Forty heat pump rebates worth Fifty Seven Million Dollars in Two Thousand Twenty Five while Platte River Power

5 Florida Miami wood smoke The air inside your home may be worse than outside What every parent should know - Miami Herald Use electric stoves and heaters when possible instead of gas or wood-burning options According to the Pediatric Environmental Health Specialty

6 Indiana Bloomington heat pump rebate Bloomington opens Two Thousand Twenty Six rebates for solar and energy upgrades AOL dot com Homeowners in Bloomington can apply for rebates covering solar heat pumps EV chargers and more through the Two Thousand Twenty Six BGHIP

7 Maine Portland heat pump rebate My dad warming up to the heat pump water heater
Opinion - The Portland Press Herald heat pump water heaters in late March allowing anyone
interested to get a rebate of over One Thousand Dollars for installing a heat pump right now The

8A Massachusetts heat pump rebate RAWSEP View Affordability efforts should start at
the national level Pulling out of Heat Pump subsidies in some areas has left U S states with too much
of the burden of making Heat Pumps a clean affordable solution to stopping dirty home heating choices
From the article headline Massachusetts environmentalists have lost the plot on energy
affordability Excerpts edited by Residents Against Wood Smoke Emission Particulates Common
Wealth Beacon heat pump rebate machine Climate action and affordability is not a binary
either/or choice People can believe that climate change is real 8B Massachusetts wood burning
Study finds firewood is introducing lead into the air A powerful neurotoxicant The Cool Down
Burning wood may be putting lead back into the air in neighborhoods and inside homes raising new
concerns about a heating source many people Wood burning is reintroducing lead pollution into the
air US scientists find Study of samples from seven winters suggests neurotoxic metal coming from
wood itself rather than old paint The Guardian May 15 Two Thousand Twenty Six Wood
heating is reintroducing lead into the air of local communities and homes a systematic investigation by
academics has found Overwhelming evidence of the neurotoxicity of lead meant the metal was banned
as an additive in petrol more than 25 years ago The research by academics from the University of
Massachusetts Amherst began by analyzing samples of particle pollution from five suburban and rural
towns in the north-east US They looked for tiny particles of potassium that are given off when wood is
burned and also particles containing lead Samples from seven winters revealed associations between
potassium and lead When there were more wood burning particles in a daily sample there was more
lead in the air with clear straight-line relationships in four of the five towns wood smoke Study
finds firewood is introducing lead into the air A powerful neurotoxicant Yahoo Researchers from the
University of Massachusetts Amherst found that as wood-smoke pollution rose in winter airborne lead
levels also increased

9 Minnesota heat pump rebate Federal Subsidies Push Heat Pumps but Minnesota
Contractors Say Consumer Demand USA Today Despite IRA tax credits up to Two Thousand
Dollars and doubled utility rebates Sixty Six Percent of Minnesota homes still run on gas Three-quarters
of homeowners without heat Federal heat pump subsidies are not moving Minnesota homeowners
their HVAC contractor is Despite IRA tax credits up to Two Thousand Dollars and doubled

10 Missouri PM TWO POINT FIVE air-quality-analysis-particulate-matter-2 5-weekly-monitor-
data_2 pdf m o dot gov Thumbnails Document Outline Attachments

11A Oregon Multnomah County wood smoke Stay safe during smoke and wildfire season
- Multnomah County Fire and smoke map AirNow Oregon Smoke Blog · Wood-burning restrictions
local fire department burn bans 11B Oregon Willamette Valley wood smoke RAWSEP
View If this was a controversy over Speeders in a Residential Neighborhood who regularly crash into
homes this would not be treated so lightly as it is in this article Police use measurement of speeding
with Radar Guns Scientific and Medical Studies have shown for decades that Wood Smoke PM Two
point Five Particulates cause health problems such as lung cancer heart attack asthma attacks and

cataracts as well as many other kinds of cancer and also cause early deaths Any economic savings from burning wood by one person are offset by the increased health care costs to near neighbors The economic argument for wood burning is increasingly specious in the face of clean cheaper and less logistically problematic alternatives for home heating such as Heat Pumps that work down to Forty Degrees below zero and also function as air conditioners in these Global Warming Times The long term solution is to provide clean energy from the source with use of Wind Solar and Geothermal powering electrical grids that extend to all rural areas The short term solution to air pollution in a neighborhood that sickens residents is to shut down indoor residential wood burning The problem is that residents can only discuss this among themselves or try personal persuasion with people who are blowing smoke in their faces There need to be ordinances that use evidence from PurpleAir PM Two point Five monitors which show PM two point five levels above World Health Organization W H O limits of Five micrograms per cubic meter annually Ordinances should be written which allow data downloadable from PurpleAir PM Two Point Five monitors and available to any member of the public including Public Health authorities to be used as evidence of air pollution levels from PurpleAir Monitors hanging from the eaves of houses of near neighbors of indoor residential wood burners whose wood burning smokes enters the yards of the near neighbors and sickens them After the data is presented air polluting indoor residential wood stoves should be shut down by Public Health authorities one wood burning appliance at a time if necessary

From the article headline Readers Respond to a Neighborhood Battle Over Stove Smoke

Willamette Week Wood smoke as released from a wood-burning stove in a sauna is bad for the lungs Portlanders avoid confrontation The owner of Secret Sauna and the Willamette Week

Readers Respond to a Neighborhood Battle Over Stove Smoke **Excerpts edited by Residents Against**

Wood Smoke Emission Particulates May 24 Two Thousand Twenty Six Wood smoke harms health especially for kids reads a sign posted in a tree across from Secret Sauna Portlanders like to be healthy Wood smoke as released from a wood-burning stove in a sauna is bad for the lungs Portlanders avoid confrontation The owner of Secret Sauna and the next-door neighbors complaining about the smoke it produces are engaged in a battle conducted via phone social media letter and the newspaper The fight continues in our comments One Commenter via Reddit Starting a wood-burning business in what looks like it is going to be the worst fire year in decades is just amazingly stupid Multnomah County should regulate these saunas and wood-burning pizza ovens out of existence A Commenter via w week dot com Until you have been smoked out of your home yourself it is impossible to comprehend how sick-making and distressing it is I really feel bad for these neighbors The Oregon State University OSU Professor is like a wood-burning industry equivalent of a tobacco-funded scientist She gets grant funding for wood stove development and supports the industry If even she thinks the sauna is a problem you know it is bad! The article unfortunately ends on a misleading note Just because the smoke is not visible it does not mean it is harmless The most toxic components of wood smoke are invisible to the naked eye An efficient fire with little visible smoke can emit large amounts of ultrafine-sized particles and carcinogenic toxins

12 Pennsylvania PM TWO POINT FIVE Philadelphia Health Department Provides Final Update on Glenwood Avenue Fire Air Quality City of Philadelphia The fire caused only a slight rise in the amount of particulate matter or PM TWO POINT FIVE before being brought under control No other criteria

13 Washington DC heat pump How to get the best deal on a new home HVAC system
The Washington Post Full Coverage

14 Wyoming ordinance and wood burning Public Notice No 9656 - Lusk Herald CODE
Two Thousand Twenty Six REVISIONS RELATING TO RECREATIONAL BACKYARD FIRE PITS BBQ AND
SMOKERS Only clean dry natural wood manufactured fire logs

15 Puerto Rico The San Juan Islands wood smoke Outdoor burning prohibited within town
limits The Journal of the San Juan Islands wood construction/demolition debris metal or any
substance other than clean wood that normally releases toxic emissions dense smoke or

16A Australia Tasmania Excerpts edited by Residents Against Wood Smoke Emission
Particulates AI Overview The Launceston Lingering Wood Smoke Problem A Case of Déjà Vu
The city Compared to ordinary wildfire smoke that comes only from burning Launceston the
second-largest city in Tasmania is once again facing unhealthy winter air pollution linked to widespread
use of wood heaters The topography of the city and reliance on wood heating have made it one of the
most polluted urban areas in Australia a status first confirmed in Two Thousand by the Commonwealth
Scientific and Industrial Research Organization CSIRO Doctor Melita Keywood Air Quality News A
History of Efforts and Setbacks The problem was first formally recognized in the early 1990s through the
Launceston Air Pollution Study Nineteen Ninety One to Nineteen Ninety Four which involved Fifty public
health experts The findings led to a multimillion-dollar wood heater buyback and education program in
Two Thousand One funded by the Australian Government and championed by respiratory physician
Doctor James Markos Air Quality News The program offered incentives to replace old heaters with
cleaner systems but industry lobbying succeeded in allowing newer wood heaters as eligible
replacements which some experts argue diluted the environmental benefit Air Quality News Despite
these measures wood heater use has reportedly increased in recent years due to cost-of-living pressures
raising concerns that the problem is resurfacing Current Crisis and Public Health Impact In Two
Thousand Twenty Five the Launceston air pollution reached unhealthy levels prompting calls from public
health experts like Professor Fay Johnston to reduce reliance on wood heaters She estimates that about
60 Tasmanians die prematurely each year from the health burden of wood heater emissions Residents
with respiratory conditions such as bronchiectasis have described the smoke as something people are
not able to live with and people have left the region to avoid it Council Action and Controversy
Launceston City Council pledged in Two Thousand Twenty Two to develop a clean air strategy before the
next winter but it has yet to deliver In Two Thousand Twenty Six the council released a draft wood smoke
plan proposing new bylaws which has divided residents and experts Some see it as overreach while
others endorse regulation to protect public health The Examiner The plan has also sparked debate over
whether a phased ban on wood heaters could be the most effective long-term solution The Examiner
The Bigger Picture The situation echoes past decades with repeated cycles of awareness policy and
relapse Experts warn that without sustained enforceable measures—such as stricter emissions
standards incentives for cleaner heating and public education—Launceston risks returning to the same
unhealthy air quality it faced decades ago Air Quality News In short the Launceston wood smoke
problem is a déjà vu of past failures where initial interventions improved air quality but were undermined
by industry influence economic pressures and delayed follow-through The city now faces a critical
window to act before the next winter

16B Australia Western Australia Brabham heat

pump rebate Lot 1207 Brabham Avenue Brabham WA 6055 Residential Land for Sale Real estate Sustainable package with solar rebate smart energy/water systems heat pump Planned Vantage neighborhood Thoughtfully planned for modern living

17 Ireland heat pump Dublin and the European Union Unlocking the potential of smart heat pumps - Cooling Post heat pump control The research explored the automation and optimization of heat pumps in seven Dublin homes as part of an EU funded Horizon Two Thousand Twenty

18A United Kingdom heat pump Enhancing heat pump performance One-pipe system optimization ACR Journal Furthermore stable hydraulic conditions support the efficient integration and operation of heat pumps by enabling lower return temperatures and **18B** United Kingdom heat pump Heat Pumps are integral to a Government Plan to Lift Families out of Fuel Poverty Warm Homes Plan **Excerpts edited by Residents Against Wood Smoke Emission Particulates** ACR Journal January 21 Two Thousand Twenty Six Government unveils Fifteen Billion British Pound Warm Homes Plan Families across the country will see lower energy bills as a result of the government comprehensive plan to upgrade the homes of the nation The government has announced the Warm Homes Plan will deliver Fifteen billion British Pounds of public investment roll out upgrades to up to Five million homes that could save them hundreds on energy bills and help to lift up to a million families out of fuel poverty by Two Thousand Thirty Upgrading homes is one of the best ways to bring down bills for good and this plan is a vital next step in addressing the long-term issue of energy affordability for the country Home insulation installations fell by more than Ninety Percent between Two Thousand Ten and Two Thousand Twenty Four and millions of households have paid higher energy bills as a result The British people are currently showing record demand for home clean energy products like solar panels and heat pumps The cost of these products continues to fall but they are still out of reach for too many - and this plan will help bring these costs down so working people can benefit The Warm Homes Plan targets help at low-income families alongside a universal offer to ensure that working families can feel the benefits of products that can cut their bills Alongside this the plan will support consumer choice for all households so people can choose the technologies that work for them as and when they want Homeowners will be able to apply for government-backed low and zero interest loans to install solar panels - unleashing a rooftop revolution These loans will also be available for batteries and heat pumps making it easier than ever for every home to access clean energy technologies that can lower bills Low-income households and those in fuel poverty could receive support that would cover the full cost of having solar panels put on their rooftop or insulation installed alongside new rules to ensure landlords invest in upgrades to cut bills for renters and social tenants The Three pillars of the program are Direct support for low-income families Low-income households will receive free of charge packages of upgrades depending on what technologies are most suitable for their homes- backed by Five billion British Pounds of public investment For example families could receive fully funded installations of solar panels and a battery to the full average cost currently Nine Thousand to Twelve Thousand British Pounds For social housing residents this could mean upgrades to entire streets at the same time lowering bills and improving warmth and comfort for whole neighborhoods An offer for everyone The government-backed zero and low interest loans program to get solar panels onto the rooftops of the nation and new rules that mean every new home will come with solar panels by default This plan will

triple the number of homes with solar panels on their rooftops by Two Thousand Thirty Making it easier for anyone who wants to get a heat pump with a Seven Thousand Five Hundred British Pounds universal grant for heat pumps and the first ever offer for air-to-air heat pumps that can also cool homes in the summer Talking about the announcement Russell Dean Deputy Divisional Manager at Mitsubishi Electric said We are pleased to see the Warm Homes Plan outlined today as this level of support to make renewable heating options more affordable and accessible has been long called for The plan to offer interest-free loans for heat pumps is a welcome step to further reduce upfront costs and the continuation of the Boiler Upgrade Scheme shows that the government is serious about making heat pumps a realistic option for more of us We know that these measures will be welcomed by homeowners – our own research found that Sixty Nine Percent of homeowners in the UK agree that more funding should be made available for this type of switch However the disproportionate cost of electricity still remains a roadblock for the uptake of renewable heating in the UK Reducing the price of electricity versus the volatility of gas and oil prices will be key to bringing down electricity prices and making heat pumps more affordable to We also welcome the government aim to ensure that at least Seventy Percent of heat pumps installed in the UK are made here As the UK largest manufacturer of heat pumps we support this aim and we are doing everything we can to unblock householder adoption of heat pumps There needs to be growth in the market The publication of the long-awaited Future Homes Standard will give impetus and drive momentum to grow the market to reach that Seventy Percent target and the installation of Four Hundred Fifty Thousand heat pumps per annum Whilst the plan offers much for households and domestic properties support for businesses and commercial buildings remains extremely limited The commercial sector continues to be held back by little to no governmental regulatory or legislative incentive to decarbonize The lack of commercial focus signifies a missed opportunity to tackle the UK circa Two million non-domestic buildings and any genuinely transformative action plan must address this

19A Europe PM TWO POINT FIVE Air pollution and Type 2 Diabetes in Europe Insights from nonlinear exposure-response modelling PubMed PM TWO POINT FIVE annual cases increase 19B Europe PM TWO POINT FIVE A few days of bad air linked to One Hundred Forty Six Thousand Five Hundred premature deaths in Europe Air Quality News When analyzed separately PM TWO POINT FIVE was associated with around Seventy Nine Thousand preventable deaths annually For particulate matter the study found

20 Ukraine PM TWO POINT FIVE Air conditioning at Foxtrot self-cleaning HEPA and ionization — how filtration systems work u n n dot u a This physics is addressed by heat exchanger self-cleaning while filtration works in parallel from coarse dust to submicron PM TWO POINT FIVE Modern models

21 China PM TWO POINT FIVE Cleaner air cuts PM TWO POINT FIVE but dementia deaths still rise with aging - Medical Xpress Spatial-temporal trends of PM TWO POINT FIVE -attributable dementia deaths in China from Two Thousand to Two Thousand Sixty The Lancet Healthy Longevity Two Thousand Twenty Six 22 Japan heat pump Midea HVAC-Residential Heating & Cooling Solutions Midea Comfort dot us Full Coverage