Web 57DHYAFZZFLMB October 20 2026 New York City Heat Pumps That Fit in Your Window

In this Webisode 1 World 2 United States 3 California 4 Colorado 5 Massachusetts 6 Michigan 7 New Hampshire 8 New York 9 Texas 10 Washington 11 Canada 12 Mexico 13 United Kingdom 14 China 15 Indonesia 16 Japan 17 The Philippines 18 Singapore 19 West Sumatra 20 Idiot Corner Just do not burn wood to begin with! Main Content

1A World PM Two point Five GEMS Air UNEP UN Environment Program particulate matter PM TWO POINT FIVE For instance particulate matter with diameters that are generally Two point Five micrometers and smaller in size This database is an

1B World PM Two point Five Rising global population co exposure to heatwaves and landscape fire sourced air pollution Science Simultaneously global populations have also been increasingly exposed to fine particulate matter PM TWO POINT FIVE and ozone O3 air pollution from

2A United States heat pump Dual Fuel HVAC Systems Why Heat Pumps and Gas Furnaces Are Gaining Momentum Contracting Business We are pumping out heat at temperatures of Fifteen Degrees Fahrenheit From the contractor side if I am at your house and I go all electric with a cold climate heat pump

2B United States heat pump A new report just busted another myth about heat pumps – Grist Excerpts edited by Residents Against Wood Smoke Emission Particulates RAWSEP for brevity and clarity You may have heard by now that heat pumps which transfer warmth from outdoor air to an indoor space instead of generating it like a furnace A new report just busted another myth about heat pumps Do not worry There is there plenty of room on the grid for these electrical wonders and they will save ratepayers tons of cash You may have heard by now that heat pumps which transfer warmth from outdoor air to an indoor space instead of generating it like a furnace do not work when it gets really cold out That is incorrect as models designed for frigid climes can keep you toasty even in the dead of winter Do not believe me? Look no further than the Nordic countries which have fully committed to them despite the not exactly balmy winters of the region OK so heat pumps are more efficient than ever which is why Americans seem to be warming up to the appliances But surely since they are electric switching to them on mass will push the grid to collapse? That is also false A new report from the energy thinktank RMI finds that thanks to headroom in the grid during the winter months three quarters of US homes some One Hundred Nine Million could adopt the technology no problem That would significantly reduce greenhouse gas emissions and slash electric bills by over Twenty percent in some states A substantial number of homes can upgrade to heat pumps within the headroom today said a manager in the organization buildings team We would be better utilizing the grid capacity that is already there that essentially spreads those costs across more kilowatt hours and everyone benefits with a lower electricity rate What is this headroom exactly? It is the difference between the grid generation capacity and demand in winter Typically the need for electricity is highest in the summer when millions of air conditioners gobble tremendous amounts of power In the winter many folks instead heat their homes with gas furnaces so they are getting that energy elsewhere relieving strain on the grid This means that during colder months there is additional capacity to provide power That is where we see moving to heat

pumps adding that electrical load in the winter where there is all that available grid capacity is a way to add load to the grid without needing to build it out more In other words keeping One Hundred Nine Million heat pumps running through the winter would not require say heaps of new gas fired power plants This buffer though is not the same state to state or region to region For one climates are different In Phoenix summers are way hotter than in Boston requiring more AC with much milder winters requiring less heating How local utilities generate electricity matters too Gas power plants can run year round but with more solar coming online generation dips in the winter as the days grow shorter To compensate for this utilities are building sprawling battery farms to store energy and experimenting with using electric vehicles as a vast network of backup power They are even using Earth itself as a giant battery for longer duration storage Either way renewables and batteries are combining to make the grid more reliable than it is with fossil fuels and much more flexible no matter the time of year further reducing costs for ratepayers Read Next The US may be hitting a tipping point for heat pumps The US may be hitting a tipping point for heat pumps Matt Simon The ultimate goal is for heat pumps to replace fossil fuels as the dominant way of warming and cooling our homes Yes heat pumps can cool a space by transferring warmth from inside to outside But they also need to replace electric resistance heating like space heaters These appliances are especially common in the Pacific Northwest and the Southeast which endure less punishing winters than the Northeast These giant toasters are of course a better option than a gas furnace as they are inherently more efficient and do not poison homes But heat pumps are around three to four times more efficient meaning they require less electricity and therefore demand less from the grid This could theoretically save households switching from resistance heating an average of One Thousand Five Hundred Thirty Dollars a year according to RMI previous research So how can the US accelerate its shift to heat pumps? For one AC units that go kaput should be replaced with heat pumps States can provide rebates to encourage people to make the switch When a state puts its collective mind to it the transition can happen faster than you think Maine again another place not known for comfortable winters blew past its goal of installing 100000 heat pumps two years ahead of schedule Oddly enough simply building more apartments tackling the housing crisis is a rare bit of agreement between Democrats and Republicans is a sneaky way to get more heat pumps into units

2C United States heat pump The Opportunity for Heat Pumps to Put Downward Pressure on Electricity Rates – RMI How many US homes could add heat pumps within the winter grid headroom today and how that could lower electric rates and emissions

2D United States PM Two point Five Outdoor air pollution and prostate cancer risk in the National Institutes of Health AARP Diet Oxford Academic Oxford University Press Background Outdoor air pollution including fine particulate matter PM TWO POINT FIVE is an established carcinogen yet few studies evaluate its associations

3A California wood smoke Burning Isaias debris may solve one problem while creating another Bradenton Herald For those in Santa Rosa and Escambia counties already tired of seeing piles of wood trees and other debris caused by the powerful winds of

3B California heat pump rebate In California expanded rebates add free help for EVs chargers heat pumps and farm equipment The Cool Down Yahoo rebate and support lineup according to Ed hat 3CE Electrify Your Home program also offers household rebates for heat pump

4A Colorado heat pump Colorado homeowner spent Fifty Thousand Dollars on geothermal says cooling is now almost free The Cool Down Geothermal heat pumps deliver ultra efficient heating and cooling but they still feel out of reach for many homeowners either because of their

4B Colorado wood smoke News Release FORT CARSON Public Affairs Office army mil For additional information regarding how to protect your health from wood smoke please refer to the Colorado Department wood smoke and health

4C Colorado wood smoke White River National Forest Prescribed Fire planned north of Edwards USDA Forest Service For more information about prescribed fire smoke visit https www colorado dot gov pacific cdphe wood smoke and health Stay Informed

5A Massachusetts Boston heat pump Heating your home is expensive Should you get a heat pump? The Boston Globe much of Massachusetts will have to pay the market rates for heating Would a heat pump help? Boston dot com The question that inevitably gets raised when we talk about heating systems as part of remodel is Should we swap our system from fossil fuels to

5B Massachusetts heat pump rebate Reduced heat pump rate available for MA customers Lowell Sun heat from the outside air into a home The reduced rate combined with energy efficiency rebates for new installations helps keep costs

5C Massachusetts heat pump rebate Replacing a Fifty year old electric furnace? Commenters say a heat pump still wins in deep cold Yahoo Shopping One commenter put it this way Heat pumps have evolved Some of them work down below Twenty Degrees below Zero Most of the time [it] is over negative Twenty Degrees below zero right? Take the rebates

6 Michigan PM Two point Five Call for more air quality monitors in Michigan Upper Peninsula Great Lakes Echo One measures PM TWO POINT FIVE pollutants which are small particles like liquid droplets or tiny solid Two point Five micrometers of chemicals The federal

7A New Hampshire Stark wood smoke wood burning Investigators believe the fire may have been linked to a wood stove – Facebook Reason to have pipes cleaned every season and check smoke alarms diligently The initial investigation led firefighters to believe the wood burning On Tuesday fire officials confirmed the theory that a wood burning stove was the source of the fire The blaze was caused by improper use of

7B New Hampshire wood burning Man and 2 dogs dead woman seriously injured after fire tears through New Hampshire home Boston 25 News Investigators believe the fire may have been linked to a wood stove

7C New Hampshire Manchester wood smoke Officials practice home heating safety to prevent fires – WMUR wood burning stoves Make sure that your heating system is being serviced and maintained appropriately Whether it is a wood fired stove make

8 New York New York City heat pump Heat Pumps That Fit in Your Window WSJ heat pump was designed to heat an entire home Now a new generation of pumps promises similar energy efficiency at a lower cost and stress free Heat Pumps That Fit in Your Window Forget costly wall

cuts and ductwork These new units promise energy efficiency and are installed much like conventional air conditioners Excerpts edited by Residents Against Wood Smoke Emission Particulates RAWSEP for brevity and clarity October 18 Two Thousand Twenty Six Exterior view of a multistory brick building at the NYCHA Woodside Houses with Midea heat pumps installed below many windows Midea heat pumps installed at NYCHA Woodside Houses in the Queens borough of New York City NYCHA A new option for heating and cooling is spreading across the US window heat pumps Using heat pumps for climate control is not new But in the past installation could be costly and complicated involving cutting a hole in an exterior wall as well as ductwork if the heat pump was designed to heat an entire home Now a new generation of pumps promises similar energy efficiency at a lower cost and stress free setup since they fit into windows much like conventional air conditioners Although there are some consumer models available the pumps are largely aimed at potential bulk buyers like housing authorities and landlords usually those looking to easily and inexpensively upgrade or supplement older heating systems States cities utilities and nonprofits across the country are running pilot programs with the pumps to see if they deliver on their big promises and identify any flaws In one large scale project for instance the New York City Housing Authority is installing pumps for thousands of tenants in municipal housing

9 Texas wood smoke Mulch fire at Novus Wood Group sends large smoke plumes over southeast Houston YouTube Houston firefighters are battling a mulch and grass fire at Novus Wood Group on Haynesworth Lane Crews were first called around 8 a m

10 Washington wood smoke Tracking the Wood Fire in Washington WFCA Fire Map Smoke and lightning observations and short range forecasts Early perimeter and 3 hour spread forecasts for California fires via FIRIS Live

11A Canada heat pump rebate Federal rebate aims to help homeowners switch to heat pumps Hardlines Depending on their income households can receive between Two Thousand Dollars and Ten Thousand Dollars toward the purchase of an electric heat pump with the amount stackable 11B Canada heat pump rebate Hajdu announces heat pump rebates and skilled trades funding Ground News Hajdu announces heat pump rebates and skilled trades funding Investments in home retrofits synergize with the government investment in the skilled SN News Watch dot com Homeowners in the middle to low income range can get a rebate of up to Ten Thousand Dollars to install a heat pump if they have an older inefficient furnace or 11C Canada Newfoundland Saint John heat pump rebate Heat Pump Industry Ready for New Rebate Programs VOCM A local company says it is ready for increased demand for heat pump and mini split installations in homes Fed 11D Canada heat pump rebate Two household groups that will benefit most from the Carney new heat pump rebate Clean Energy Canada Last week Prime Minister Carney announced a Two Billion Dollar investment in a National Heat Pump Rebate Program The rebate is available to everyone 11E Canada heat pump rebate Want a free heat pump? Government offering no cost retrofits to low income households in N L Yahoo News Canada This program is in addition to the federal announcement last week of the National Heat Pump Rebate which opens in January and is open to all homeowners

12 Halfway into the Idiot Corner Just do not burn wood to begin with! Mexico wood smoke Wood Burning Stoves in Mexico The Borgen Project Wood burning stoves in Mexico reduce smoke exposure save firewood and preserve cooking traditions improving health and the environment

13A United Kingdom heat pump During a full UK renovation commenters say a heat pump makes more sense before the walls close Yahoo Shopping Palmetto can help homeowners understand their HVAC options and lower their energy bills with newer more efficient HVAC systems and heat pumps 13B United Kingdom England wood burning New Wood Stove Ban Proposed to Cut Toxic Air Pollution by Thirty Percent New environmental rules target domestic wood burning stoves to reduce harmful PM TWO POINT FIVE air pollution by Thirty Percent under proposed clean air standards RAWSEP View The catch hobbling this law is that existing stove owners will not face retroactive confiscation or instant prohibitions on appliances already installed in their living rooms Another catch hobbling this law is that manufacturers are only asked to sell wood burning stove models that meet emission standards when selling of wood stoves should be prohibited across the board since all emit hazardous levels of wood smoke This however is a start although it could hardly be called aggressive measures There are also exceptions for Diwali and Bonfire Night What if there was a Civil Fine every time someone lighted an unnecessary wood fire and what if the entire populace was given access to subsidies to buy clean energy Heat Pumps in substitution for wood burning? Would there rise up campaigners for the right to light an unnecessary wood fire trumping the right of everyone to breathe clean air? The Heating Industry specialists mentioned and consulted by the government in this article are lobbyists for the Dirty Fossil Fuel and Wood burning industries and achieving Seventy Percent air pollution down from One Hundred Percent Air pollution is touted as an advance Perhaps less than halfway to clean air seems like a success but in terms of helping the populace breathe freely it is not success Excerpts edited by Residents Against Wood Smoke Emission Particulates RAWSEP for brevity and clarity October 15 Two Thousand Twenty Six A red hot flame in a wood stove for warmth in the Japanese winter A wood stove burning solid fuel for domestic heating Sales of older highly polluting models of wood burning stoves face an outright ban under newly unveiled environmental proposals designed to slash toxic fine particulate pollution by Thirty Percent by Two Thousand Thirty compared to Two Thousand Eighteen levels While existing stove owners will not face retroactive confiscation or instant prohibitions on appliances already installed in their living rooms Manufacturers will be blocked from selling models that fail to meet strict new emissions thresholds The aggressive measures are part of the revised Environmental Improvement Plan EIP an overarching policy framework targeting airborne toxins municipal waste and indoor contamination Official monitoring data reveals that domestic combustion accounted for one fifth of all PM TWO POINT FIVE emissions in Two Thousand Twenty Three making household fireplaces and hearths one of the largest single sources of fine particulate matter entering residential communities Public health officials have placed fine particulate matter under heavy scrutiny due to its microscopic size Measuring Two point Five micrometers or smaller PM TWO POINT FIVE particles bypass the natural respiratory defenses of the body penetrating deep into the lungs and entering the bloodstream The Health Stakes Behind Tighter Emissions Limits The updated environmental plan explicitly identifies solid fuel combustion as a major driver of respiratory and cardiovascular illness particularly across densely populated urban centers Long term medical research links continuous inhalation of domestic smoke to worsening asthma chronic obstructive pulmonary disease and severe cardiac complications The World Health Organization

considers PM TWO POINT FIVE the most harmful pollutant to human health with air pollution responsible for Six point Seven million premature deaths every year Clean air advocates have rallied around stricter thresholds for over a decade Rosamund Kissi Debrah whose nine year old daughter Ella died in Two Thousand Thirteen from a severe asthma attack linked directly to unlawful air pollution levels described the tightened Thirty Percent reduction target as a critical step forward noting that reducing atmospheric toxic load directly lowers emergency pediatric hospital admissions How the New Log Burner Regulations Compare The proposed regulatory framework establishes clear distinctions between older appliances compliant modern hardware and localized burning zones Rather than penalizing households with complete heating bans the strategy centers on phasing out outdated retail inventory while tightening the rules governing established Smoke Control Areas Regulatory Detail of the Retail Wood Burning Stove Sales Bans First manufacturers are banned from selling older models that fail to meet updated emissions criteria Existing Home Units Current installations are not retroactively outlawed existing stoves remain legal to operate Smoke Control Areas Subject to stricter enforcement and updated limits on permitted solid fuels Two Thousand Thirty PM TWO POINT FIVE Target Mandates a Thirty Percent reduction in fine particulate matter concentrations compared to Two Thousand Eighteen levels Cultural Exemptions Public consultations will balance rules against traditional cultural festivals like Diwali and Bonfire Night A widespread misconception is that clean air laws aim to criminalize every homeowner who lights a fire during the winter months In reality the regulatory shift targets manufacturing standards and fuel quality rather than enacting universal heating bans on rural properties reliant on solid fuel Industry Standards and What Homeowners Must Do Heating industry specialists report that the manufacturing sector has already engineered modern solutions capable of meeting tighter clean air standards High efficiency systems including certified pellet stoves multifuel units and advanced wood burners release significantly fewer particulates than open fireplaces or obsolete metal fireboxes Wood burners multifuel stoves and pellet stoves that meet Cleaner Choice standards already meet potential EIP targets demonstrating that industry is well prepared for this change To remain compliant and reduce domestic particulate output under changing regional standards homeowners utilizing solid fuels should take specific operational steps

14 China PM Two point Five China Air Quality Trends September Two Thousand Twenty Six Snapshot Centre for Research on Energy and Clean Air CREA PM TWO POINT FIVE levels rose year on year in Twenty Two provincial capitals in September up from Eighteen in August Unfavorable weather and changes in emissions both

15 Indonesia PM Two point Five Smoke from Kalimantan forest fires reaches Indonesian capital Xinhua As of Friday noon PM TWO POINT FIVE concentrations in the Jakarta Kemayoran district reached Sixty Seven point Five micrograms per cubic meter a level classified by the agency as

16 Japan heat pump Panasonic unveils R454C air to water heat pumps for residential use PV magazine Global Japan based Panasonic has introduced the Aquarea High Performance N Series a new range of air to water heat pumps designed for residential heating

17 The Philippines PM Two point Five Hazardous haze seen in 8 Philippine areas DENR Inquirer dot net The DENR EMB said it monitored high concentrations of particulate matter PM particulate matter measuring Two point Five micrometers or less in diameter

18A Singapore PM Two point Five Singapore pollution spikes East Timor shuts schools as Indonesia wildfire haze intensifies bdnews24 dot com In October Two Thousand Fifteen Indonesian wildfires brought PM TWO POINT FIVE levels in the west of Singapore up to a national record of Four Hundred Seventy One micrograms per cubic meter

18B Singapore PM Two point Five Singapore schools taking precautionary measures based on hourly PM TWO POINT FIVE like avoiding outdoor Mothership If the PM TWO POINT FIVE hourly reading is in the Elevated range Fifty Six to One Hundred Fifty Lee said schools will avoid prolonged or strenuous outdoor physical activities While

19 West Sumatra PM Two point Five Air Quality in Areas Affected by Forest and Land Fires Enters the Hazardous Category – Kompas dot id Based on the data from the Air Pollution Standard Index ISPU several areas in West Sumatra are experiencing unhealthy air quality for the PM TWO POINT FIVE

20A Idiot Corner Just do not burn wood to begin with! United States wood burning Firewood Month US Fish & Wildlife Service firewood for woodstoves cabins and campfires October is National Firewood Month a timely reminder that the wood we burn can carry unwanted

20B Idiot Corner Just do not burn wood to begin with! United States wood burning 5 Things to Check Before You Light Your Fireplace for the First Time This Season Yahoo Since freshly cut and improperly stored wood have a higher moisture content burning them can cause creosote buildup which can increase your chances

20C Halfway to Idiot Corner? New York Albany heat pump Switching to Electric Home Heating Could Add Thousands to Energy Bills Empire Center for Public Policy heat pump and Three Thousand Three Hundred Dollars with electric resistance heating The estimates It excludes the cost of purchasing and installing heat pumps RAWSEP View From Wikipedia The Empire Center for Public Policy is a fiscally conservative think tank and government watchdog group based in Albany, New York The Empire Center was founded in Two Thousand Oh Five as a project of the Manhattan Institute for Policy Research In Two Thousand Thirteen , the Empire Center was spun off from the Manhattan Institute, becoming an independent nonprofit organization The stated mission of the Center is to Make New York a better place to live and work by promoting public policy reforms grounded in free-market principles, personal responsibility, and the ideals of effective and accountable government RAWSEP View Opinion If New York State heating using electricity is higher than New York State heating using natural gas furnaces according to the Empire Center those figures and comparisons may be out of date Since the war in Iran the cost of natural gas has increased precipitously Since wind power is cheaper than fossil fuel power if wind power were used to power the New York State Electric Grid the cost of electricity from the grid would be cheaper The solution of creating a cheaper electric grid has nothing to do with the specific cost of running a residential Heat Pump under ideal grid conditions Boycotting buying Heat Pumps until the electric grid becomes cheaper will occur at a time when the cost of natural gas is continuing to rise quickly with no end in sight since there is no end in sight for the Iran war under the current Federal administration Heat Pumps use electricity efficiently compared to electric baseboard heaters for instance These are RAWSEP refutations of Empire Center claims of economic costs to using a Heat Pump simply because it runs on electricity The

RAWSEP refutation of Empire Center claims that it is best not to buy a Heat Pump are that Heat Pumps are clean energy which removes the fossil fuel or other solid fuel such as wood burning emission air pollution factor from home heating which causes human health problems and early deaths and removes the fossil fuel or other solid fuel such as wood burning emission air pollution particles and gases factor from home heating which hastens Climate Change The free market principles of this Conservative Think Tank are shown by emphasis on the liberty of business to create air pollution at the cost of ill health higher healthcare costs and funeral costs for early deaths of residents of New York and their neighbors who are not given the opportunity or subsidies needed to purchase clean energy Heat Pumps The costs are monetary as well as to human health if the switch is not made to Heat Pumps for residential heating Excerpts edited by Residents Against Wood Smoke Emission Particulates RAWSEP for brevity and clarity October 15 Two Thousand Twenty Six FOR IMMEDIATE RELEASE ALBANY New York A new Empire Center estimate shows that heating an average home from October to March would cost approximately with natural gas compared with One Thousand One Hundred Ten Dollars with a heat pump and Three Thousand Three Hundred Dollars with electric resistance heating The estimates show that natural gas is significantly less expensive than electricity for residential heating Replacing natural gas with electricity for home heating could add hundreds or even thousands of dollars to the energy bills of New Yorkers said the President of the Empire Center for Public Policy The Empire Center estimated October to March home heating costs using the natural gas and electricity prices of the previous year from the US Energy Information Administration and heating degree days from NYSERDA The calculation assumes that a residence requires Forty MMBtu of heat energy It excludes the cost of purchasing and installing heat pumps or other equipment which can range from thousands to tens of thousands of dollars Ditching cheaper gas for expensive electricity makes no sense No wonder two thirds of New Yorkers oppose it said the President of Empire Lawmakers and candidates need to come clean Are they going to force home heating electrification on New Yorkers or are they going to drop it? New data in the Empire Center Energy Data Bulletin show that New York residential natural gas prices were Seventeen percent above the national average and Seven percent higher than the previous year Earlier data showed that residential electricity prices were Sixty Three percent above the national average and Fourteen percent higher than the previous year

20D Idiot Corner Just do not burn wood to begin with! South Dakota Rapid City wood smoke Wildfire experts share tips for wood burning in homes Yahoo While burning inside your home stoves can lead to effective ways of removing logs and pallets as well as heating up your house Disposal of the ashes KELOLAND dot com While burning inside your home stoves can lead to effective ways of removing logs and pallets as well as heating up your house Disposal of the ashes YouTube Wildfire experts share tips for wood burning in homes Stay informed about South Dakota news weather and sports Follow KELOLAND News on our Yahoo Wildfire experts share tips for wood burning in homes KELO Sioux Falls Sun October 18 KELO Sioux Falls Saturday October 17 Two Thousand Twenty Six

20E Idiot Corner Just do not burn wood to begin with! Vermont wood smoke Free moisture meters at 63 Vermont libraries to test firewood content Vermont Business Magazine wood burning practices said DEC Commissioner Using dry seasoned wood reduces smoke cuts air emissions and protects our