

In 57DHYAFZH 1 Heat Pump Instant Discounts Smaller Rebates in some States in 2026! For Example Wisconsin Focus on Energy dot com Heat Pump Instant Discounts and Smaller Rebates than in 2025! Google Alerts G2 World G3 United States G4 California G5 Colorado G6 Nevada G7 Pennsylvania G8 Texas G9 Vermont G10 Washington State G11 Washington DC G12 United Kingdom G13 Denmark G14 Germany G15 Senegal G16A India The PM2 POINT 5 problem the environment ministry is pushing downwind G16B India The contribution of stubble burning to the Delhi PM2 POINT 5 pollution fell significantly during the 2025 burning season Main Content

1 Heat Pump Instant Discounts Smaller Rebates in some States in 2026! For Example Wisconsin Focus on Energy at Focus on Energy dot com Heat Pump Instant Discounts and Smaller Rebates than in 2025! 2026 Wisconsin Heat Pump Instant Discounts at Focus on Energy dot com The standard instant discount is based on 4 tiers and is between 4 hundred dollars and 7 hundred dollars The income qualified discount is based on 4 tiers and is between 6 hundred dollars and 9 hundred dollars 2026 Wisconsin Focus on Energy Instant Discounts for Heat Pumps

Heat Pumps	Standard Discount
Tier 1 Minimum requirements SEER2 15 point 2 and HSPF2 8 point 1 1 hundred dollars propane replacement	4 hundred dollars 1
Tier 2 Minimum requirements SEER2 15 point 2 and HSPF2 8 point 5 1 hundred dollars propane replacement	5 hundred dollars
Tier 3 Minimum requirements SEER2 16 point 0 and HSPF2 9 point 0 1 hundred 50 dollars propane replacement	6 hundred dollars
Tier 4 Minimum requirements SEER2 16 point 0 and HSPF2 10 point 0 1 hundred 50 dollars propane replacement	7 hundred dollars

2026 Wisconsin Focus on Energy Instant Discounts for Heat Pumps

Heat Pumps	Income Qualified Discount
Tier 1 Minimum requirements SEER2 15 point 2 and HSPF2 8 point 1 3 hundred dollars propane replacement	6 hundred dollars
Tier 2 Minimum requirements SEER2 15 point 2 and HSPF2 8 point 5 3 hundred dollars propane replacement	7 hundred dollars
Tier 3 Minimum requirements SEER2 16 point 0 and HSPF2 9 point 0 3 hundred 50 dollars propane replacement	8 hundred dollars
Tier 4 Minimum requirements SEER2 16 point 0 and HSPF2 10 point 0 3 hundred 50 dollars propane replacement	9 hundred dollars

2026 Wisconsin Focus on Energy Heat Pump Rebates Geothermal Heat Pumps Rebate Certified Geothermal Heat Pump with natural gas service 1 thousand dollars Certified Geothermal Heat Pump with no natural gas service 7 hundred 50 dollars Geothermal heat pumps can be dual fuel heat pumps ECM Variable Speed Pump Rebate ECM Motor 25 dollars ECM Variable Speed Pump less than 100 Watts 80 dollars ECM Variable Speed Pump 1 hundred to 5 hundred Watts 2 hundred dollars ECM Variable Speed Pump 500 plus Watts 4 hundred dollars Multifamily Style Equipment Rebate Single Package Vertical Unit Natural gas unit 90 percent plus Thermal Efficiency 1 hundred dollars Single Package Vertical Unit Natural gas unit 90 percent plus Thermal Efficiency 11 point 0 plus EER 1 hundred 50 dollars Packaged Terminal Heat Pump 1 hundred 20 dollars

Heat Pump Rebates RAWSEP Question Are there still heat pump rebates offered by the US federal government in 2026? AI Overview Answer on January 7 2026 No the main federal heat pump tax credit Energy Efficient Home Improvement Credit or 25C expired on December 31 2025 meaning homeowners installing qualifying heat pumps in January 2026 or later are generally not eligible for that specific federal incentive though state local programs and new federal rebate programs for lower income households might still exist The previous credit offered 30 percent up to 2 thousand dollars annually for heat pumps but this is

gone for 2026 installations increasing upfront costs Key Points for 2026 Federal Tax Credit Expired The 2 thousand dollar tax credit for heat pumps under the Inflation Reduction Act IRA ended for systems placed in service after December 31 2025 Higher Costs Without this credit the effective price for homeowners installing heat pumps in 2026 and beyond is higher New Programs Potential While the tax credit is gone new federal rebate programs like the Home Energy Rebate Program are rolling out but these are typically targeted at lower income households and administered through states not direct federal tax credits What to Do Now Check State & Local Programs Look for energy efficiency rebates or incentives offered by your state utility company or local municipality as these are separate from the federal tax credit Income Based Rebates Explore the Home Energy Rebate Program HEEP and Home Efficiency Rebate Program HER for potential income qualified rebates though availability and specifics depend on your state

RAWSEP Search for Tax Credits you can use on your 2025 Federal Tax Return AI Overview Federal Home Energy Incentives in 2026 Federal Tax Credits Expired for 2026 installations The federal Energy Efficient Home Improvement Credit Section 25C and the Residential Clean Energy Credit Section 25D provided tax relief for qualified energy efficient upgrades and clean energy installations These credits expired on December 31 2025 To claim them property must have been installed and placed in service by that date Federal Home Energy Rebate Programs Available through state programs

RAWSEP Search for Rebates you may be able to use for Heat Pumps in 2026 up to 2031 in selected US states The Inflation Reduction Act IRA also allocated a separate 8 point 5 billion dollars in funding for two rebate programs administered by state energy offices the Home Efficiency Rebates HOMES and the Home Electrification and Appliance Rebates HEAR These are rebates money back at the time of purchase installation rather than tax credits The availability specific launch dates and rules vary by state as each state is responsible for designing and implementing its own program **Many states including Wisconsin California Colorado and Illinois have launched or are planning to launch their programs in 2026 and subsequent years** These programs have separate funding that is available until September 30 2031

Actionable Steps for 2026 Check State and Local Programs Since federal tax credits have largely ended state local and utility specific programs are now the primary source of incentives Check your local utility or state energy office website for specific programs available in your area For example you can check your eligibility for state local or utility incentives using the Rewiring America calculator Contact Your State Energy Office The availability of federal HOMES and HEAR rebates in your state can be found on your state official energy website such as the Missouri Department of Natural Resources or Focus on Energy Wisconsin sites Consult a Tax Professional For any improvements made in 2025 consult a tax professional to ensure you correctly filed for the appropriate tax credits on your 2025 federal tax return using IRS Form 5695

RAWSEP searched for HEEP for an Example in Colorado The Home Energy Rebate Program HEEP in Colorado for 2026 will provide rebates to eligible Coloradans for high efficiency electric appliances and whole home energy efficiency upgrades The program aims to lower upfront costs for projects that reduce energy use and make homes healthier and more comfortable The Colorado Energy Office CEO will issue rebates through registered program contractors who will pass the rebate savings on as discounts to households and multifamily building owners and operators The program will offer two rebate types Home Electrification and Appliance Rebates HEAR for high efficiency electric appliances and other upgrades and Home Efficiency Rebates HER for whole home energy efficiency improvements The rebate amounts will depend on home type household income level installed improvements and or expected energy savings The program will be launched in stages with applications opening later this year Households will need to work with a registered program contractor to confirm which rebates are best for them and to guide them through the application process

RAWSEP searched for HER for an Example in Colorado In 2026 Colorado will launch the Home Efficiency Rebate HER program offering significant financial incentives for energy efficient upgrades in homes including up to 14 thousand dollars in rebates for eligible households Overview of the Home Efficiency Rebate HER Program Launch Date The HER program is expected to roll out in early 2026 focusing on energy efficiency improvements in large multifamily buildings and mobile manufactured homes Funding The HER program will provide an additional 56 million dollars to fund energy efficiency improvements complementing the existing Home Electrification and Appliance Rebate HEAR program

Google Alerts

G2 World The United Nations has warned that 99 per cent of the world population is exposed to Facebook What is known as PM2 POINT 5 small air particles that measure 2 point 5 micrometers or less in width rank as one of the most concerning toxic air

United States Why Heat Pump Projects Fail Tips and Tricks for Success Automated Buildings dot com January 23 2026 Learn why central heat pump projects fail and how to fix them This session with industry experts diagnoses common control design Why Heat Pump Projects Fail Tips and Tricks for Success Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization AI Overview The failure of heat pump projects often stems from control issues which can be mitigated with proper design experience contractor execution and commissioning Here are some tips and tricks to ensure success in heat pump projects Design Experience Ensure that the project team has a solid understanding of heat pump technology and its application in various building types Contractor Execution Select contractors with experience in heat pump installations and a commitment to quality workmanship Commissioning Conduct thorough commissioning to ensure that the heat pump system is properly set up and ready for operation Documentation Maintain detailed documentation throughout the project to facilitate communication and troubleshooting Regular Maintenance Implement regular maintenance schedules to keep the heat pump system running efficiently and prevent issues By addressing these areas project teams can significantly improve the chances of a successful heat pump project and achieve the promised efficiency and financial benefits

G3A United States Sulfate and carbon in fine air pollution tied to higher depression risk Medical Xpress Long term exposure to fine particulate matter like PM2 POINT 5 components in polluted air can not only cause respiratory diseases but also increase the Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization A recent population based cohort study collected data from nearly 23 point 7 million U S Medicare beneficiaries aged 65 years and older between 2000 and 2018 to examine specific components of PM2 point 5 exposure both individually and in combination and its associations with the risk of developing depression Among those tracked more than 5 point 5 million developed depression during the follow up period These findings are published in JAMA Network Open G3B United States HVAC tech easily dismantles a common myth plaguing the home heating conversation The Cool Down January 3 2026 An HVAC expert took to Instagram to dispel one of the most common and expensive myths about heat pumps G3C United States CEO of HVAC company dispels myth about high efficiency heat pumps The Cool Down January 1 2026 There are several types of heat pumps with air source and mini splits among popular models G3D United States Homeowner shares honest thoughts three months after revamping home with superefficient The Cool Down December 31 2025 Yet overall the heat pump was coming out on top Check out TCD HVAC Explorer for more information about how heat pumps can save you up to 50 percent on

G4A California Homeowner shares candid review after trying to snag 17 thousand dollars in HVAC incentives The Cool Down January 3 2026 One Redditor shared their experience upgrading to a heat pump heating and cooling system giving insight into the costs and payoff including rebate Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization A California homeowner shared their candid review after trying to snag 17 thousand dollars in HVAC incentives They replaced their aging heating and air conditioning system with a heat pump which was from the 2 thousands and barely functional The homeowner property was a single story two bedroom house with high vaulted ceilings making temperature control challenging Despite the initial sticker shock of around 20 thousand dollars before rebates the homeowner applied for every rebate they could find collecting 11 thousand dollars in rebates applied directly to their invoice They also qualified for an additional 1 thousand dollar county electrification rebate and a 5 thousand dollar state smart home rebate both received after installation In the end the homeowner out of pocket expense was reduced to

about 3 thousand dollars and they experienced significant savings on their energy bills The investment has already paid off with the homeowner noting that they can run all units and still be under 3 kWh total usage significantly lower than their previous unit 5 to 6 kWh usage range G4B California Contra Costa County Air District Issues Spare the Air Alert for New Years Day Contra Costa News It is illegal for Bay Area residents and businesses to use their fireplaces wood stoves pellet stoves outdoor fire pits or any other wood burning

California San Francisco Air District issues Spare the Air Alert for New Years Day Use of all wood burning devices is Bay Area Air Quality Management District

Air quality to worsen around New Years holiday due to fireworks woodburning YouTube While not expected to be as bad as January 1 2025 air quality is expected to worsen on New Years Day because of the fireworks and woodburning

Bay Area Spare The Air Alert Wood Burning Ban Issued For New Years Day 2026 Patch Both fireworks and wood smoke contribute to unhealthy air especially in neighborhoods where fine particles accumulate the agency said

Bay Area Spare the Air alert wood burning ban issued for New Years Day 2026 CBS News First time violators of the wood burning ban will be encouraged to take a wood smoke awareness course or receive a 1 hundred dollar ticket A second violation

Bay Area issues Spare the Air alert for New Years Day San Francisco Chronicle Personal fireworks and residential wood burning are expected to cause localized spikes in pollution especially in dense neighborhoods where smoke can

Bay Area Spare the Air alert wood burning ban issued for New Years Day 2026 CBS News wood stoves pellet stoves outdoor fire pits or any other wood burning devices Natural gas propane or electric fireplaces are allowed The Air

New Years Day Spare the Air alert bans wood fires and fireworks in the Bay Area Yahoo Wood burning is prohibited and Bay Area residents are urged to avoid personal fireworks as weather conditions are expected to trap pollution near

Spare The Air Alert issued for Bay Area for New Years Day KALW Smoke from fireworks and firecrackers can make it difficult for those suffering from asthma and other respiratory illnesses Wood burning can produce

Spare the Air alert issued for New Years Day KRON4 Wood smoke can pose serious health risks particularly for children seniors and people with respiratory conditions Wood burning according to

Spare the Air alert issued for New Years Day NBC Bay Area NBC Bay Area Smoke from fireworks and firecrackers can make breathing difficult for those with respiratory conditions like asthma Smoke from burning wood can

Spare the Air alert issued for New Years Day Yahoo The alert bans the burning of wood manufactured fire logs or any other solid fuel The ban is in effect for both indoor and outdoor burning

Spare the Air alert issued for New Years Day NBC Bay Area Smoke from fireworks and firecrackers can make breathing difficult for those with respiratory conditions like asthma Smoke from burning wood can also

Spare the Air Alert issued for New Years Day in Bay Area The Press Democrat Personal fireworks and residential wood burning are expected to cause localized elevated pollution levels the air district said in a social media

G5A Colorado On Heat Pumps Colorado Hits The Ground Running Clean Technica A new point and shoot app makes it easy for homeowners to estimate their savings from heat pumps and other energy efficiency upgrades According to the company cold climate heat pumps can qualify for up to 8 thousand dollars in rebates towards the cap of 14 thousand dollars Standard heat pumps qualify for G5B Colorado Zero Homes Announces Statewide Expansion To Help Colorado Homeowners Access MarketWatch Colorado Energy Office Heat pump installations Zero Homes facilitates heat pump system installations including cold climate and ductless

Colorado Zero Homes Expands Across Colorado to Help Homeowners Access 14 thousand dollars Greentech Lead Rebates for Heat Pump Installations January 3 2026 By Editor Colorado Home Energy

Rebate Program Cold climate heat pumps may receive rebates of up to 8 thousand dollars while standard heat pump systems can qualify for up to 3 thousand dollars all within the total

Colorado Zero Homes Announces Statewide Expansion To Help Colorado Homeowners Access PR
Newswire Heat pump installations Zero Homes facilitates heat pump system The Home Energy
Rebate Program includes two rebate tracks the Home

Colorado Zero Homes Announces Statewide Expansion To Help Colorado Homeowners Access Ravalli
Republic Zero Homes Announces Statewide Expansion To Help Colorado Homeowners Access Home
Energy Rebates and Install High Efficiency Heat Pumps · By Zero Homes

Colorado Zero Homes Announces Statewide Expansion To Help Colorado Homeowners Access Rio
Grande Sun Rebate Program and install energy efficient heat pump systems that lower energy costs and
improve home comfort rebate process and complete

G6 Nevada Clark County Seasonal Air Quality Advisory Issued for Ozone Wildfire Smoke Clark County
1 for smoke and high levels of particulates PM2 POINT 5 and PM10 that could occur from fireworks on New
Years Eve and New Years Day

G7 Pennsylvania Cautious homeowner receives advice about snagging disappearing federal incentives for
HVACs The Cool Down However the rebate programs of some states have yet to be launched heat
pump HVAC system To learn more check out The Cool Down HVAC Excerpts edited by RAWSEP for
brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3
nonprofit organization Homeowners are advised to act quickly to take advantage of the federal tax credits
for HVAC upgrades as they will end on December 31 2025 These credits part of the Inflation Reduction Act
provide significant financial incentives for energy efficient home improvements Homeowners can claim up
to 2 thousand dollars as a federal tax credit when filing their taxes and states will be rolling out rebates over
the next year It is recommended to consider the long term savings and utility bills reduction that heat pumps
can offer as well as the potential for additional savings through solar panel integration Homeowners should
also explore state rebates and utility incentives which will continue to exist after the federal tax credits expire

G8 Texas Solar Panels and Heat Pumps to Be More Expensive in 2026 Bloomberg dot com The
elimination of US tax credits for residential heat pumps solar panels and batteries will make electrifying your
home more expensive in 2026 Excerpts edited by RAWSEP for brevity and clarity and relationship to
Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization Texas Public Radio
December 31 2025 AI Overview The upcoming year 2026 is expected to bring increased costs for solar
panels and heat pumps due to the expiration of federal tax credits that have been crucial for financing these
energy efficient technologies The One Big Beautiful Bill Act has been passed by the Republican controlled
Congress which will phase out these tax credits As a result property owners who install these energy
efficient devices after December 31 2025 will no longer qualify for the tax credits leading to higher costs for
the equipment This change is part of a broader trend where some more efficient technologies like heat
pumps may cost more than the minimum code requirements making them less accessible for consumers

G9 Vermont Waterbury RAWSEP View Wood Moisture Meters are a roundabout and ultimately
unsatisfactory method of ending unnecessary air pollution from indoor residential wood burning The more
direct route would be to give free PurpleAir PM 2 point five monitors to near neighbors of indoor residential
wood burners who complain of wood smoke entering their yards and sickening the near neighbors The data
showing level of PM 2 point 5 from the resident owned monitors could be downloaded from the publicly
available PurpleAir website 24 hours a day 7 days a week and surely available to government officials during
normal working hours PurpleAir PM 2 point 5 data can be used to prove PM 2 point 5 levels are above World
Health Organization Standards WHO Standards of 5 micrograms per cubic meter annually in the yards of near
neighbors and infiltrating the homes of near neighbors of indoor residential wood burners PurpleAir PM 2
point 5 monitors are already used on AirNow Maps of Smoke and Fire alongside 50 thousand dollar official US
EPA PM 2 point 5 monitors That PurpleAir PM 2 point 5 data should be proof of the source of air pollution to

justify shutting down each wood burning appliance one wood burning appliance at a time if necessary Using moisture meters acknowledges that the toxin PM 2 point 5 is emitted by indoor residential wood burning Incrementally reducing the percentage of a toxin at the whim of a wood burner is not enough Knowing that a toxin is emitted and knowing that stopping wood burning entirely can eliminate that unnecessary toxin should lead to shutdowns of indoor residential wood burner one wood burner at a time if necessary Choosing wood to burn with a lower moisture content is left up to the wood burner in Vermont when only moisture meter rentals are offered to wood burners and there are no laws or ordinances that allow shutdown of a wood burner that in reality exceeds W H O standards for PM 2 point 5 emission into the yards of near neighbors If a person is addicted to nicotine and occasionally chooses a low tar cigarette that does not appreciably reduce the amount of smoke that coworkers in a workplace endure from either a low tar cigarette or an ordinary cigarette If there is no law against smoking in a workplace it is up to the coworkers to complain that they are being subjected to secondhand cigarette smoke without having a sign on the wall of their workplace saying No Cigarette Smoking Near neighbors of indoor residential wood burners are like canaries in a coalmine and the air quality they endure should be measured because PM 2 point 5 from their neighbor burning wood incrementally further pollutes the air of everyone since air moves freely outside map boundaries and the PM 2 point 5 and Carbon Dioxide emitted from wood burning contributes to climate change Wood burning emits 2 point 8 times the PM 2 point 5 as the fossil fuel coal burning and wood burning emits 450 times the PM 2 point 5 as natural gas burning PM 2 point 5 particulate matter of 2 point 5 micrometer size is the perfect size to infiltrate the human lung setting off a cascade of human health problems and early deaths Heat Pumps that work down to 40 degrees below zero had Federal Government Rebates of up to 8 thousand dollars based on a sliding income scale in 2025 and may continue If Federal Government Rebates for Heat Pumps do not continue state governments are coming up with their own Heat Pump Rebates Wind and Solar energy is cheaper to produce in 2026 than burning wood for energy industrially **From the article headline** The State of Vermont supplies libraries with free moisture meters to test firewood Waterbury Roundabout wood burning practices said DEC Commissioner Misty Sinsigalli Using dry seasoned wood reduces smoke cuts air emissions and protects our Firewood Moisture Meter Loan Program **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization** MOISTURE METERS AVAILABLE AT 63 PUBLIC LIBRARIES TO TEST FIREWOOD MOISTURE CONTENT Agency of Natural Resources Department of Environmental Conservation January 7 2026 The Vermont DEC Air Quality & Climate Division AQCD and the Department of Libraries have co sponsored a state wide wood moisture meter loan program Hand held wood moisture meters are available at 63 public libraries see list below for patrons to borrow for free to check the moisture content of their firewood Wood burning is an economical way to heat homes However proper burning practices are necessary to prevent poor air quality and protect public health

G10 Washington Bellingham Fresh Air Fresh Start Small Steps for a Healthier New Year My Bellingham Now During the winter months wood smoke becomes a major concern for public health If you do use a wood stove ensure you are burning only dry

Washington Whatcom County Air quality burn ban upgraded to Stage 2 in Kendall area Whatcom News wood smoke from clearing out This is an upgrade from a Stage 1 issued December 29 2025 NWCAA said effective immediately all burning is prohibited unless a wood stove is your only adequate source of heat in the Columbia Valley urban Washington Whatcom County upgrades burn ban for Columbia Valley urban growth area Bellingham Herald The ban is not because there is a high risk of fires but because the cold and calm air could prevent wood smoke from clearing wood burning fireplaces

G11 Washington DC Burning wood emits more than fossil fuels Here are alternatives to wood burning for home heating Daily Herald and Washington Post December 23 2025 Many fireplace lovers including myself once assumed burning wood to stay warm is a climate win because trees can be planted in place of a cut down burned tree and suck carbon dioxide out of the air **RAWSEP View** This article does not mention that living trees close their pores in the face of PM 2 point 5 from nearby wood burning just like humans hold

their breath in the face of PM 2 point 5 from nearby wood burning When a living tree closes its pores it also absorbs less CO2 than if its pores were not closed Therefore planting a tree in place of a cut down burned tree does not negate the air pollution effect of that wood burning Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization AI Overview from 3 sources January 7 2026 Burning wood emits more CO2 than fossil fuels but there are ways to build a more efficient fire to minimize environmental impact Emissions from Burning Wood Higher CO2 Emissions Burning wood can emit 2 point 5 times more CO2 than natural gas and 30 percent more than CO2 than coal per unit of heat generated This is due to the fact that the carbon stored in trees is released all at once when burned while fossil fuels also release carbon that has been stored for millions of years Short Lived Climate Pollutants In addition to CO2 burning wood emits short lived climate pollutants such as black carbon which have a significant warming impact on the atmosphere These pollutants can contribute to global warming more than CO2 in the short term Carbon Neutrality Misconception While wood burning is often considered carbon neutral because the CO2 released is thought to be reabsorbed by new tree growth this process is not instantaneous It can take years for new trees to absorb the same amount of CO2 emitted during burning leading to a net increase in atmospheric CO2 in the short term Consider Alternatives Explore alternative heating options such as heat pumps or district heating systems which can provide cleaner energy without the emissions associated with wood burning

G12 United Kingdom New study makes unexpected finding on strategy to reduce strain on the electric grid Yahoo This study has presented strong evidence that domestic air source heat pumps and in some cases even electric heating panels increase power demand Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization The Cool Down December 26 2025 AI Overview Heat pumps A new study has revealed that homes equipped with heat pumps could reduce grid pressure even more than initially thought The research analyzed electricity consumption rates for homes constructed according to new building standards in a housing development After tracking the data for a year the study found that average peak electricity demands were lower than expected with homes consuming 40 percent to 67 percent less energy than the average home This unexpected finding suggests that heat pumps may be a more effective strategy for reducing grid strain than previously believed

G13 Denmark Esbjerg AI Overview The Esbjerg heat pump system is designed to replace coal power in the Danish city of Esbjerg It utilizes two heat pumps working in parallel each pulling in 14 thousand cubic meters of seawater every hour to deliver hot water at temperatures of 60 to 90 degrees Centigrade to homes and businesses This system is part of a broader plan to transition to greener energy sources and is the largest heat pump of its kind in the world The heat pumps use seawater as a heat source and Carbon Dioxide as a refrigerant ensuring efficient and effective heating for a significant number of residents

G14 Germany Mannheim This Giant Heat Pump Is Expected To Warm Over 40 thousand Homes Here is How It Works Yahoo Plenty of homes all over the world particularly in Europe get warm using heat pumps and radiators How does this new heat pump in Germany? Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization January 2 2026 There are still plenty of myths bandied around about heat pumps with one of the most common myths being that they do not work well in the cold Modern heat pumps are efficient enough to still extract useful amounts of heat from the environment even in the depths of winter A deal to build a heat pump in the German city of Mannheim was signed in October 2025 and when it is complete it is set to provide heat to 40 thousand homes The Mannheim heat pump draws from the Rhine The heat pump system in Mannheim uses hot water to heat homes and it will also have an additional hot water storage tank to act as a reserve supply should the main pump need to be temporarily stopped for any reason The Mannheim heat pump is a water source pump and draws its water supply from the River Rhine

G15 Senegal Quantification and Spatialization of the Concentrations of Particulate Pollutants PM10 Scientific Research An Academic Publisher Scirp.org The effects of the atmospheric pollution especially result from the daily exhibition to the PM10 pollutants and PM2.5 Shah et al. 2015

G16C India The PM2.5 problem the environment ministry is pushing downwind [RAWSEP View](#)
Hyperlocal PM 2.5 monitors are the key here in the article from India Although News Laundry used a portable PM 2.5 monitor to measure the pollutant hyper locally near where which News Laundry believed a coal plant was spewing PM 2.5 RAWSEP would like to do the same thing near indoor residential wood burners although the PM 2.5 monitor instead of being portable can be a PurpleAir PM 2.5 monitor hanging from the eaves of a home of a near neighbor Although News Laundry believes PM 2.5 is emitted primarily from coal plants rather than stubble burning stubble burning in India is a significant percent of PM 2.5 pollution And stopping stubble burning in India can stop PM 2.5 pollution one small farmer at a time so the average person in India has it in his or her hands to immediately stop contributing to PM 2.5 emissions that harm human health and hasten climate change by stopping stubble burning in fields of Indian farmers one farm at a time if necessary [Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501C3 nonprofit organization](#)
News laundry or NL January 5 2026 In this episode of Aaj Ka AQI News laundry visited the Ministry of Environment Forest and Climate Change The closest CPCB monitoring station at Lodhi Road pegged the AQI at 161 or in the moderate category In contrast our portable air quality monitoring device pegged the AQI at 336 or in the very poor category As per an analysis by the Center for Research on Energy and Clean Air CREA up to 42 percent of PM2.5 in India is chemically formed in the atmosphere from precursor gases such as sulfur dioxide SO2 from coal fired power plants CFPPs and not from primary sources of pollution like vehicles or [stubble burning](#) 78 percent of these coal plants are currently exempted by the environment ministry from installing flue gas desulfurization FGD systems weakening SO2 control at the source Its reaction with ammonia in the atmosphere leads to ammonium sulfate which contributes between 17 percent and 42 percent of PM2.5 mass across Indian states with most states clustering between 30 and 40 percent annually the study noted This establishes secondary particulate matter as a core driver of the PM2.5 burden of India rather than a marginal or seasonal concern To combat this and mitigate the pollution crisis of India the MoEFCC needs to prioritize the installation of FGD systems in coal fired power plants across India This show is part of a collaborative campaign to tackle air pollution Here is how you can join the Fight To Breathe

G16B India The share percentage of Farm fires in the Delhi PM2.5 down to 3.5 percent in 2025 CPCB Hindustan Times The contribution of stubble burning to the PM2.5 pollution of Delhi fell significantly during the 2025 burning season dropping to 3.5 percent from 10.6 percent

G16C India Delhi chokes through December Worst pollution levels since 2018 The Indian Express Delhi has experienced its worst December air since 2018 this year with PM2.5 averaging 211 micrograms per cubic meter for the month so far Story continues below

G16D India A third of the annual PM2.5 load of Delhi is made up of secondary pollutants This is how they are formed The Indian Express Secondary particulate matter on the other hand forms after High secondary PM2.5 shares were also observed in Bihar Uttar Pradesh

G16E India Seasonal impact of PM2.5 on pro oncogenic drivers among participants of a thermal power Nature This work was supported by the West Bengal Pollution Control board Molecular epidemiology targeting the impact of particulate matter less than or equal to 2.5 micrometer in aerodynamic diameter PM2.5 on pro oncogenic signaling has been

G16F India The PM2.5 average for Delhi dipped this year but only due to heavy monsoon Hindustan Times CPCB data from January 1 to December 28 shows the Delhi average PM2.5 concentration at 95.31 micrograms per cubic meter