







AFFORDABLE COMFORT AND SAVINGS FOR YOUR HOME

CLEAN HEATING AND COOLING SOLUTIONS & ENERGY EFFICIENCY
Wednesday, July 26th - Cortlandt Town Hall



ABOUT SUSTAINABLE WESTCHESTER



HOUSING IN WESTCHESTER

Old housing stock

 New York: some of the oldest houses nationwide!

Median age: 66 years

Source: <u>U.S. Census</u>

Heating and cooling our homes

57% of NY home energy consumption

Source: <u>EIA</u>

Largest home energy expense!

Source: U.S.F.I.A. 2009 RFCS State Briefs. Consumption by End Use NY 1% 17% 56% 26% Water heating Appliances, electronics, lighting

WHY IS NEW YORK GOING ELECTRIC?

- Saving energy and money: choosing more energy-efficient systems and appliances reduces energy waste (less money spent!)
- Extreme weather can damage energy and home infrastructure
- Improving health and comfort: insulation and electric heating/cooling improves air quality and moisture balance





HEALTH IMPACTS



Inadequate ventilation, which increases exposure to indoor and outdoor air pollution and increases moisture and mold, is associated with an increased risk of respiratory symptoms, cardiovascular disease, and cancer;⁷



Improper heating and cooling combine with temperature extremes from climate change that can exacerbate illnesses or cause death;⁹





Indoor moisture and mold contribute to respiratory diseases, such as asthma;⁶



Pests, such as cockroaches and rodents, are connected to a range of communicable and respiratory diseases;⁸



Stress from unhealthy housing conditions can have mental health impacts, including depression. 10





EnergySmart Homes Insulation & Heat Pumps



MID-HUDSON REGIONAL CLEAN ENERGY HUB





Connecting you to the clean energy economy.

Learn more at MidHudsonEnergyChoices.org



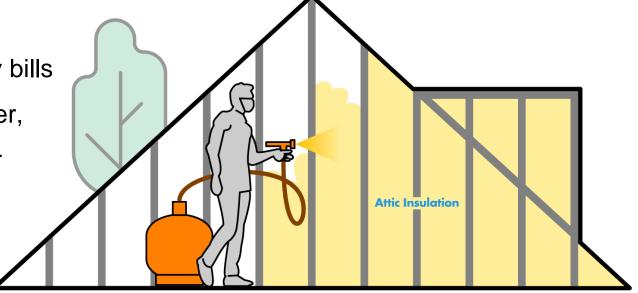
HOME ENERGY EFFICIENCY/ WEATHERIZATION

BENEFITS

Reduced energy bills

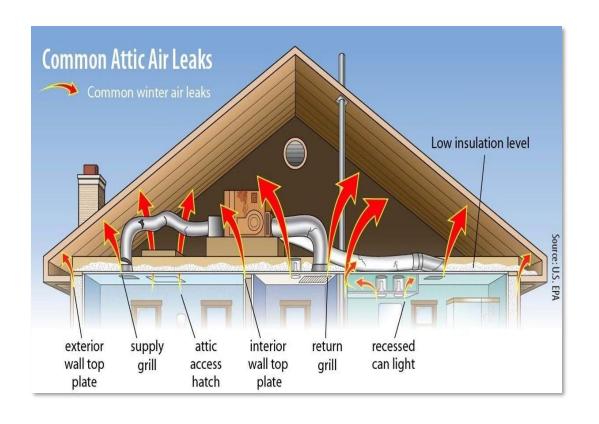
Cooler in summer, warmer in winter

Quieter home





WHY AIR LEAKAGE HAPPENS





NYSERDA PROGRAMS

Income-Based Programs



- Free home energy assessments
- **Comfort Home:** available for all income levels. \$1,000 - \$4,000 for insulation, air sealing, and energy efficiency work
- EmPower+: Up to \$10,000 depending on income level and household size. Includes insulation, air sealing, upgrading appliances to energy-efficient options (i.e. refrigerators)











WESTCHESTER HOME REPAIR GRANTS

AGING IN PLACE HOME REPAIR GRANT

- Westchester Residential Opportunities, Inc. and Habitat for Humanity
- Installing ramps and handrails, energy-efficiency upgrades, insulation and windows
- https://habitatnycwc.org/aging-in-place/

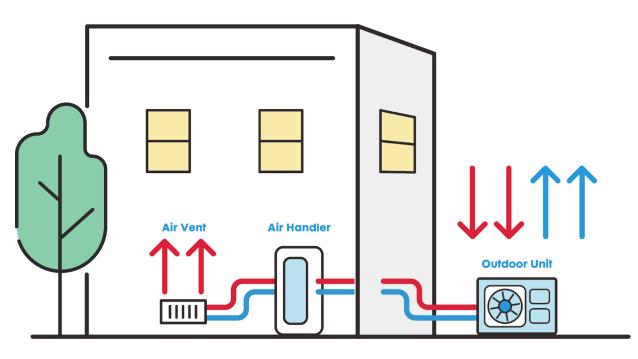
WEATHERIZATION REFERRAL ASSISTANCE PROGRAM

- Westchester County Department of Senior Programs and Services
- Up to \$5,000 per household for insulation, air sealing, door or window upgrades





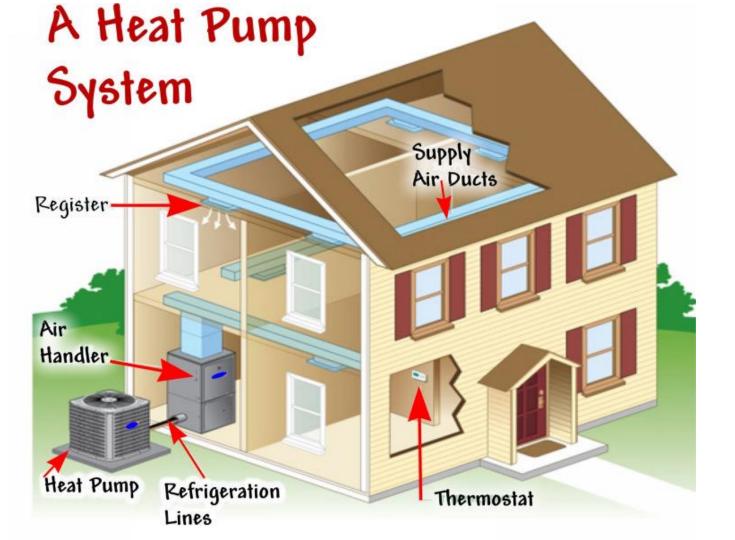
AIR SOURCE HEAT PUMPS



BENEFITS

- Provides heating and cooling
- ASHP pumps are 2-3
 times more efficient
 than most current fossil
 fuel heating systems
- Two types of applications







AIR SOURCE HEAT PUMP

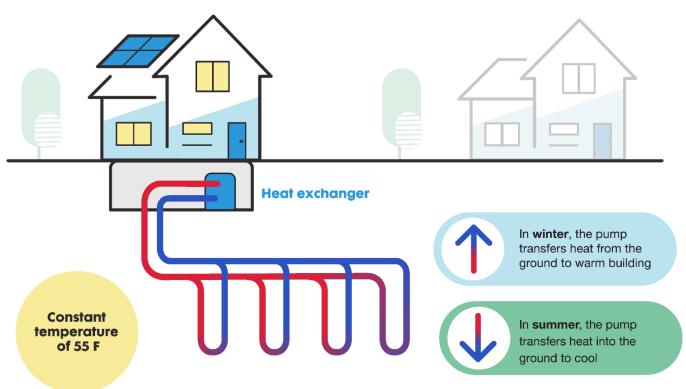
- Utility Rebates and incentives
 - Con Edison: rebate of 50% up to \$8,000 for decommissioning or a rebate of 50% up to \$2,500 for integrated controls
 - NYSEG offers \$500- \$1,000 per 10,000 Btu/h



Simon, Jean and John, Rivertowns House Tour



GROUND SOURCE HEAT PUMP



BENEFITS

- Provides heating and cooling
- GSHP pumps are
 3-4 times more
 efficient than
 most current
 fossil fuel heating
 systems

GROUND SOURCE HEAT PUMP

- Utility Rebates and incentives
 - ConEd Offers a rebate of50% up to \$20,000
 - NYSEG offers \$1,500 per
 10,000 Btu/h
- New York State Tax Credit of 25%, up to \$5,000
- Federal tax credit: 30% of costs (no limit!)



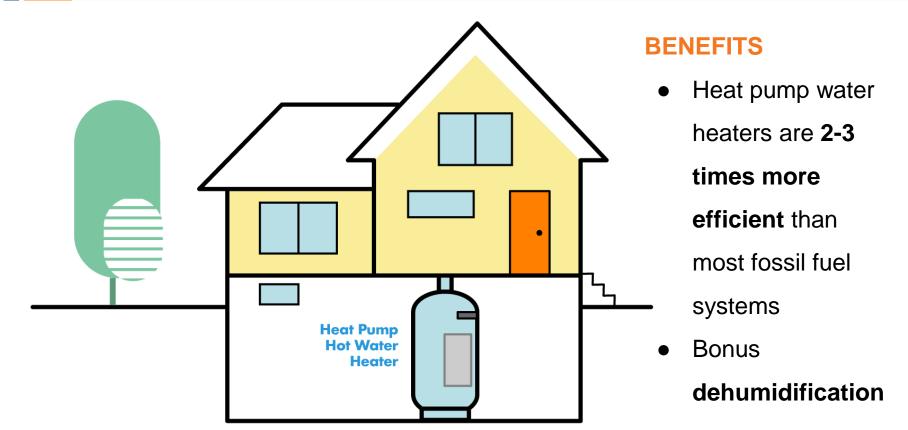


Jen N. Katonah





HEAT PUMP HOT WATER HEATER





HEAT PUMP HOT WATER HEATER

Typical adders: electrical work, condensate lines, extra piping and valve work

Utility Rebates

- ConEd offers \$1,000 per unit
- NYSEG offers \$700 per unit





FEDERAL TAX CREDITS (IRA)

Weatherization

	Туре	2022 Credit	2023 Credit
Weatherization / Energy Efficiency Upgrades (25c) For 2022: lifetime maximum credit of \$500 for all upgrades For 2023: total amount claimed is capped at \$1,200 annually	Insulation Materials	10% of material cost	30% of cost
	Exterior Doors		30% of cost up to \$500 (\$250 per door)
	Windows + Skylights	10% of material cost up to \$200	30% of cost up to \$600
	Home Energy Audits		30% of cost up to \$150
	Electric panel or circuit upgrades		30% of cost up to \$600 NOTE: Must be done alongside other energy efficiency improvements or heat pump install





FEDERAL TAX CREDITS (IRA)

Heat Pumps, Water Heaters, and Solar

	Туре	2022 Credit	2023 Credit
Heat Pumps (25c)	Air Source Heat Pumps	\$300 max	30% of cost
For 2023: total amount claimed is capped at \$2,000 annually	Heat Pump Hot Water Heater	\$300 max	30% of cost
Residential Clean Energy	Geothermal Heat Pumps	30% of costs (no maximum amount!)	
Credit (25d)	Solar		

NOTE: \$2,000 cap annually (if purchased alone OR alongside heat pump hot water heater)





CONTACT US FOR:

- Homeowner support via phone and email
- Funding + Application Assistance
- Incentive + Rebate Guides
- Contractor List
- Testimonials and Case Studies





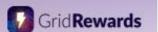
Active Savings with a Passive House!

PASSIVE HOUSE WITH AIR SOURCE HEAT PUMP



GridRewards[™] Demand Response





With Sustainable Westchester's GridRewards™ you earn real money for smart energy behavior. It's as easy as a flip of a switch.



Unplug. Take simple energy actions during peak demand times. We'll tell you when and how to save electricity.



Earn Cash. Get paid real money at the end of the year.



Save the planet. ConEd pays you to reduce usage at the most important times to avoid running inefficient, fossil fuel power plants.

Learn more: sustainablewestchester.org/gridrewards



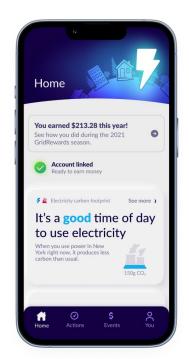


scan here to download



PERSONALIZED ENERGY INSIGHTS

- Personalized usage
- View the real time carbon intensity of the electricity grid
- Track your actions and impact
- View your projected billing
- Learn from energy saving tips





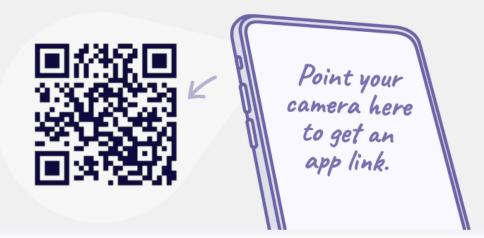




If you don't have the app, you can download GridRewards here











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EnergySmart Homes

- Sign up: https://sustainablewestchester.org/energysmarthomes/sign-up/
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SOLUTIONS FOR HEALTHY, VIBRANT, SUSTAINABLE COMMUNITIES

