

Savings, Health & Comfort



The Climate Reality Project®
NEW YORK STATE COALITION

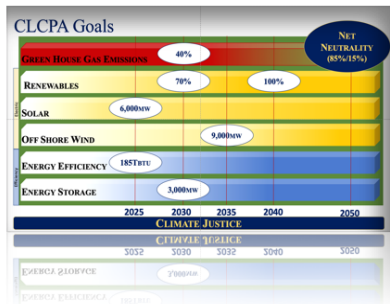
*Learn how to take advantage of
Federal, New York State and utility
incentives*

*Diane Stefani
Climate Reality Leader*

Transformational Investment in Clean Energy, American Infrastructure and Jobs

NYS Legislation

Effective January 1, 2020



Federal Level

New Administration is off
and running...



IRA

Inflation Reduction Act

\$369B
for
Climate Solutions

The
3
Uncles

BIL

BiPartisan Infrastructure Law

\$1.2T
for
**Infrastructure,
Transportation,
Public Transit, etc.**

CHIP

US Chips and Science Act

\$280B
for
**Advanced
Manufacturing
and Research**

Main Sources Of Greenhouse Gases in NYS

New York must reduce GHG emissions 85% by 2050



Department of
Environmental
Conservation



BUILDINGS

32%



TRANSPORTATION

28%



ELECTRICITY

13%



WASTE

12%



INDUSTRY

9%

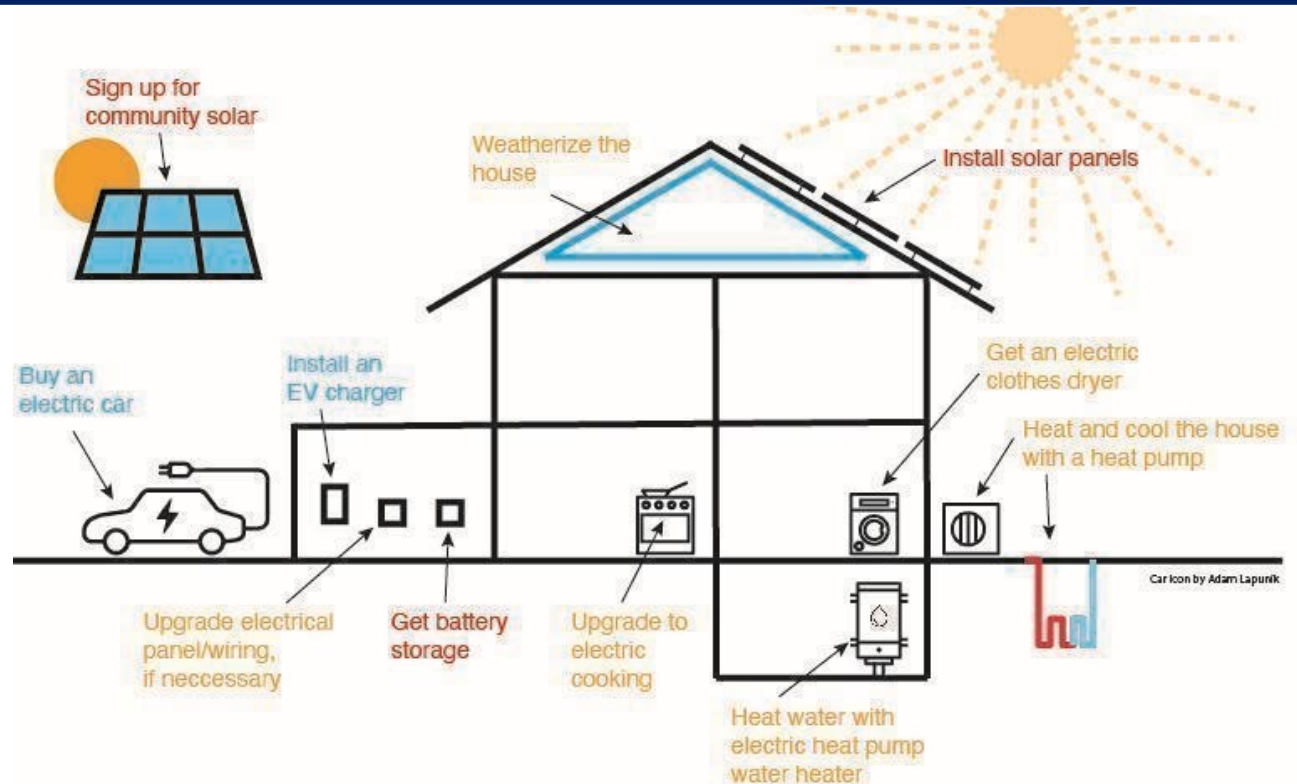


AGRICULTURE

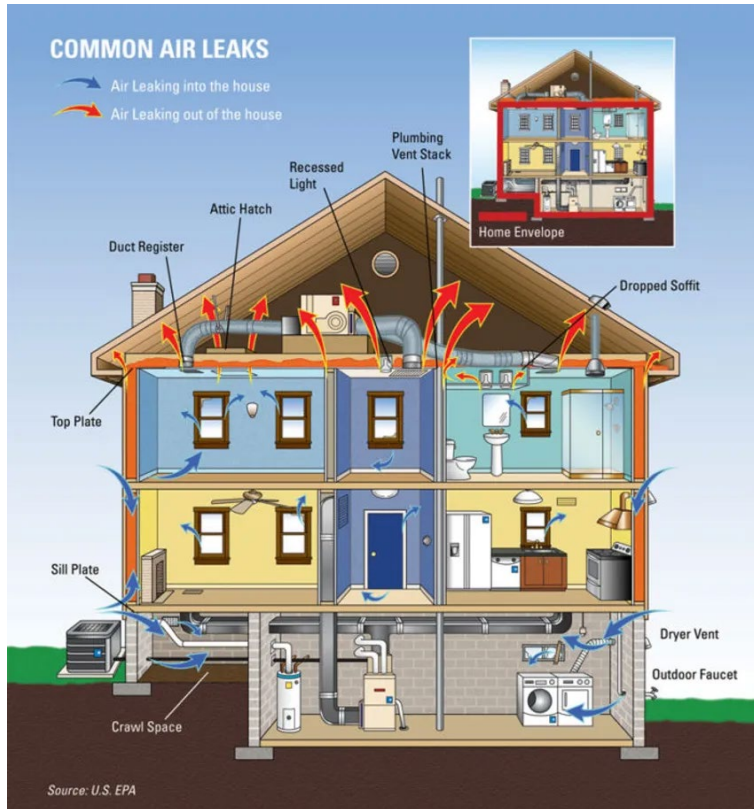
6%

11 Ways to Be More Efficient and Less Wasteful

The Efficient Eleven	
1	Community Solar
2	Weatherize
3	Electric panel & wiring
4	Space Heating
5	Water Heating
6	Clothes Drying
7	Cooking
8	Electric Vehicle
9	EV Charging
10	Residential Solar
11	Battery Storage



Get a *free* energy audit!



This is an essential step in making a long term heating and cooling plan for your home!

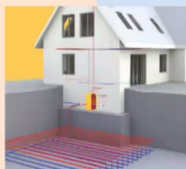
- Find out *exactly* where you are wasting energy.
- Get your home weatherized to reduce costly energy waste and improve the comfort of your home.
- There are a wide variety of IRA, New York State, and utility incentives available to help!
- Start here to find resources: <https://www.nyserda.ny.gov/All-Programs/Residential-Energy-Assessment-Programs>

Heat pump fact sheet

Space Heating and Cooling

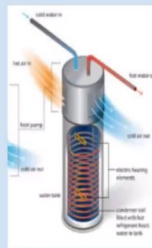


Air Source Heat Pumps



Ground Source Heat Pumps

Water Heating

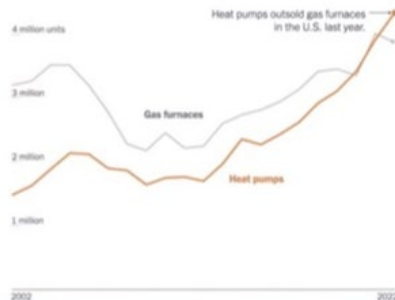


Heat Pump Water Heaters

- HPs move heat as opposed to creating heat. Thus, they are more efficient AND can act as ACs.
- They are used for space and water heating (also clothes drying!)
- Geothermal HPs are more efficient but cost more up front than ASHPs

As Heat Pumps Go Mainstream, a Big Question: Can They Handle Real Cold?

By Dana Shan Feb. 22, 2023



Modern cold climate air source heat pumps work well in Northern climates.

- Heat pumps outsold gas furnaces in the U.S. last year!
- One out of six homes in Maine now use heat pumps.
- Heat pumps are the primary heating source in Norway.

Don't be misled by:

- *Fossil fuel propaganda that they don't work in our climate.*
- *Contractors not up to date on heat pump technology.*

Renters

*Renters can access all transport and solar incentives highlighted in this presentation.
Most home weatherization and electrification incentives are also available, check:*

<https://www.nyserda.ny.gov/All-Programs/Inflation-Reduction-Act>

Consider Working With Your Landlord

- Let your landlord know about the IRA incentives.
- Encourage them to make changes.

Portable Equipment Options

- You can purchase portable equipment:
- Inexpensive portable induction cooktops are available for under \$100.
 - Inverter window ACs use 1/3 to 1/2 the electricity of regular units.
 - If your heating is not provided by the landlord to the whole building, efficient portable heat pump window units are also available at local big box stores.

Get the right contractors

- It is critical to work with a contractor experienced at installing current technology.
- NYSERDA certifies Clean Heat program contractors. You can find the list [here](#).
- Other advice in choosing a contractor is to
 - Get three quotes on all major projects and tell them that you are getting three quotes
 - The quotes will give you options on how to proceed and useful insight into the contractors
 - Ensure that equipment meets efficiency standards
 - Ensure that all rebates are included



Some notes on federal tax credits and rebates

Federal Tax credits:

- Are in effect from this tax year through 2032.
- There are annual limits on credits for many categories, but the credits “reset” every year.
- So, you can split projects over more than one year to maximize the credits.
- There are no limits on total federal income tax credits given.
- *Consult a tax advisor before making decisions involving tax credits as the rules are complex.*

Federal Rebates:

- Administered by the state based on federal rules and will be available late 2023/early 2024. EV tax credits are available now and will be available as a rebate at the point of sale starting in 2024.
- Ensure that rebates are included in your invoice before you commit to a project.
- Funds for rebates are limited and could be used up quickly if not replenished.

Disclaimer: This deck provides an overview of certain IRA tax provisions for general informational purposes only and is not itself tax guidance. We strongly recommend consulting a tax professional to review your personal situation before making decisions related to the material presented here.

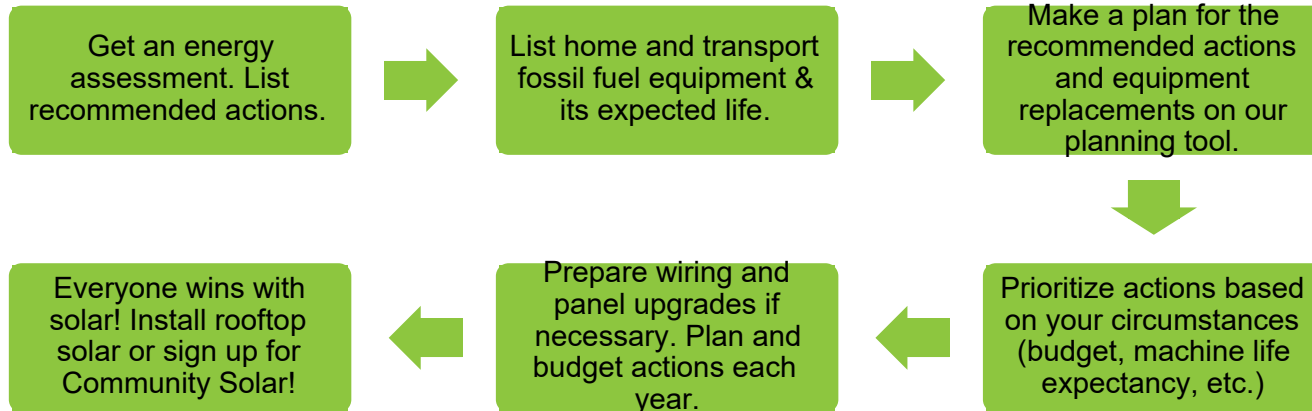
Incentives to Electrify

Notes:
 \$AMI = Area Median Income
 * 25C provides households a 30% tax credit for an electrical panel upgrade, capped at \$600: If it's upgraded in conjunction with another upgrade like a heat pump, it may be covered uncapped (25D).
 ** In 2023, the electric vehicle incentives will be accessible as tax credits. Starting in 2024, these incentives will be transferable to dealerships in exchange for upfront discounts.
 *** Not every household will be eligible for every incentive: product standards, income limits, and other eligibility requirements apply. For more information on the incentives, check out our calculator.
 **** Capital projects can avoid sales tax in New York State under certain circumstances
 ***** NYS Weatherization Assisted Home Performance and NY EmPower are income tested.

Federal & New York Incentives			US			New York		
			Upfront Rebate - LI <80% AMI\$	Upfront Rebate - MI 80-150% AMI\$	Tax Credit	Program	Rebate	Tax Credit ****
1	Electricity	Clean electricity				Community Solar (5-10%)		
2	Home	Weatherization	100% up to \$1,600	50% up to \$1,600	30% up to \$1,200 per year (25C)			
			Whole House Rebate Program up to \$8,000 - rules not issued			REAP Assessment Comfort Home Assisted Home Perf. NY EmPower ConEd Weatherization		
3	Home	Electrical wiring (pre-wire outlets early!)	100% up to \$2,500	50% up to \$2,500				
		Electrical panel (if under 100-amps)	100% up to \$4,000	50% up to \$4,000	30% up to \$600 (25C) or 30% uncapped (25D) *			
4	Home	Air Source Heat pump	100% up to \$8,000	50% up to \$8,000	30% up to \$2,000 per year (25C)		Clean Heat (by utility) Significant \$ per BTU	
4 5	Home	Geothermal heat pump			30% uncapped (25D)		Clean Heat (by utility) Significant \$ per BTU	25% up to \$5,000
5	Home	Heat pump water heater	\$100% up to \$1,750	50% up to \$1,750	30% up to \$2,000 (25C)		Clean Heat (by utility) \$700 - \$1,000	
6	Home	Electric/induction stove	100% up to \$840	50% up to \$840				
7	Home	Heat pump clothes dryer	100% up to \$840	50% up to \$840				
	Home	Other				Utility TOU Utility Demand Response Utility Marketplaces NYS Financing Sealed		
8	Transport	New EV			\$7,500 (30D) **			Clean Drive: \$500 - \$2,000
		Used EV			30% up to \$4,000 (25E) **			
9	Transport	EV Charger			30% up to \$1,000 in rural & LI Communities (30C)	Utility EV Charging		
10	Electricity	Residential solar			30% uncapped (25D)		NYSERDA NY-Sun	25% up to \$5,000
11	Electricity	Battery Storage			30% uncapped (25D)			

Planning helps you tackle this multi-step project

- Over the next decade most of us will need to replace some of our heating and cooling equipment, appliances or a vehicle.
- The IRA, NY State & utilities offer significant financial incentives to replace such items with more efficient electrified ones that are usually cheaper up front and cheaper to run.
- To take advantage of these incentives, it's best to create a plan!



Individual planning worksheet

	1. Community solar	Home energy audit	2. Weatherization	3. Electric Panel & Wiring	4. Heat pump space heating	5. Heat pump water heating	6. Electric (induction) cooking	7. Electric (heat pump) clothes drying	8. Electric Vehicle	9. EV Charger	10. Residential Solar	11. Battery Storage
Factors to consider												
Do I have control over this as a renter/homeowner/co-op or condo owner?												
Benefits of making this change												
Electrical Upgrade Required? *					At Install	Maybe	Yes (non-portable units)	Maybe		Yes	At Install	
Usual life in years *				20-25	15-20	10-15	13-15	10-13	20-25	10-15	20-30	5-15
Is the appliance or system near the end of its life?												
Federal incentives available to me												
State incentives available to me												
Utility incentives available to me												
Cost compared to fossil fuel alternative												
Anticipated Date to begin making this change												

*Source: [Rewiring America Electrification Planning Chart](#)

Join The Climate Reality Project!

- The Climate Reality Project was founded in 2006 by former VP Al Gore to teach people how to educate about the climate crisis and to organize to take action.
- There are about 50,000 trained leaders around the world and about 2,000 in New York.



Ways to get involved:

- Join a chapter [here](#).
- Join the next training [here](#).
- Want to help spread the word on electrification? Join Our Climate moment [here](#).

Questions?

Resources

Resources:

- RA's "IRA Savings Calculator": https://www.rewiringamerica.org/app/ira_calculator
- RA's "Guide to the Inflation Reduction Act": <https://www.rewiringamerica.org/IRAGuide>
- RA's "Electrifying Everything in Your Home": https://www.rewiringamerica.org/electrify_home_guide
- All NYSERDA Programs: https://www.nyserda.ny.gov/All_Programs
- NY guide to IRA savings: https://www.nyserda.ny.gov/Featured_Stories/NYS-Guide-to-Inflation-Reduction-Act-Savings
- Energy Star Appliances: https://www.energystar.gov/products/most_efficient
- DOE Energy Saver Guide: https://www.energy.gov/sites/default/files/2022_08/energy-saver-guide-2022.pdf
- Area Median Income: <https://www.huduser.gov/portal/datasets/il/il2023/2023summary.odn>

Support Organizations:

- NYSERDA Regional Clean Energy Hubs: https://www.nyserda.ny.gov/All_Programs/Regional-Clean-Energy-Hubs
- Free NYCP Energy Coaches: <https://nyforcleanpower.org/cleanenergycoaching/>
- NYC Accelerator: <https://accelerator.nyc>